If focus test is centre to Violet, shorten the forces, i.e. increase micrometer readings.

3

Dome Temp

Focus

Dome Temp

Hour Angle
End

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						David Dunlop Observatory 74" logbook Vol 27 Plate no: 24117 - 24626 Oct 1957 - 1959 Mar	

5

Date Sun-Mon Oct 20-21/57 **Observer** O - Hr **Julian Day** 2436.132

⊙ 207 13 18.6 3583.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle Ind
298-39	HD 188350	19 49.6	+00 01	5200	3400	1.0	6/4	18 27	18 45		0.32 W
299-39	HD 187929 (η Aql)	19 50.2	+00 45		"	"	6/3	18 49	19 08		
300-39	HD 187929	19 50.2	+00 45		"	"	6/3	19 09	19 28		1.18 W
301-39	HD 188350	19 49.6	+00 01		"	"	6/4	19 33	19 50		1.37 W
302-39	HD 211336	22 11.4	+56 33		"	"	6/1	20 03	20 20		0.14 E
303-39	HD 213306 (δ Lac)	22 25.4	+57 54		"	"	6/2	20 25	20 42		0.06 E
304-39	HD 213306	22 25.4	+57 54		"	"	6/2	20 43	21 01		0.13 W
305-39	HD 211336	22 11.4	+56 33		"	"	6/1	21 05	21 23		0.49 W
306-39	HD 214652	22 34.6	+36 51	5000	"	3900	"	6/6-5	21 37	22 13	1.16 W
307-39	HD 218624	23 04.4	+18 12		"		"	6/5	22 20	22 52	-
308-39	HD 3369	0 31.5	+33 10		"		"	6/1	22 56	23 31	0.38 W
309-39	HD 10205	1 34.7	+40 04		"		"	6/2	23 35	00 07	0.09 W
24117	HD 23050	03 36.9	+42 18	I-25"	E 103a-O	.008	8.7 8.9	00 39	01 59	2	0.01 E
24118	" 35961	05 23.3	54 35	"	"	"	"	02 15	03 55	"	0.08 W
24119	" 32963	05 01.8	26 12	"	"	"	8.5	04 03	05 43	3	0.21 W

From Plot 0/13

Dome Temp. +50°F
Focus 15.335 ← Used +.09 Correction.
Dome Temp.

Transparency Conditions Clear

ling Time E.S.T.	P.H	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
45		0 32 W	+00 11	Foggy 8	5.57	A0	30"	2"/min 4A/sec. Telescope reversed.	
08			+00 56	"	Var	Var	"	"	
28		1 18 W	+00 56	"	Var	Var	"	" " "	
50		1 37 W	+00 13	6	5.57	A0	"	" "	
0 20		0 14 E	+56 48	"	4.51	F0	"	" "	
0 42		0 06 E	+58 08	5	Var	Var	"	" "	
21 01		0 13 W	+58 08	5	"	"	"	" "	
21 23		0 49 W	+56 47	4	4.51	F0	"	" "	
22 13		1 16 W	+37 08	3	6.7	B3	"	" 1A/sec	
22 52		—	+18 30	3	7.0	B9	"	"	
23 31		0 36 W	+33 28	3	4.4	B3	"	"	
00 07		0 09 W	+40 21	3	5.2	B8	"	" Some cloud N	
01 59	2	00 01 E	42 27	1	8.06	G2 V	4-4-4	Set. 2 Se + Hv.	strong
05 55	"	00 08 W	54 38	0	8.17	G V	4-4-4	" 8 "	strong
05 43	3	0 19 W	26 15	0	8.24	G5 V	4-4-4	" 2 Cirrus Hv Broken Cloud after 05 Quitting	fair
							F/10	" 8 IR+I +10	OK.

	mc	sc	mtn	stw	s	sw	me
Oct. 21	-40.6	-47.4	+26.2	-1.5	+16.1	-23.5	-3.9
		-47.9	+39.2	-1.0	+16.3	-30.3	-1.8
" 25	-40.6	-48.3	+47.1	-0.7	+16.1	-37.7	-5.2

Date Fri-Sat Oct 25-26/57 Observer O Julian Day 2436137

⊙ 212 12 12.0 3592.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
310-40	HD 188350	19 49.6	+00 01	5200	-3300	10	6/4	18 18	18 36	
311-40	HD 187929 (May)	19 47.4	+00 45		"	10	6/2	18 39	18 57	
312-40	HD 187929	19 47.4	+00 45		"	10	6/2	18 59	19 16	
	repeat half							19 18	19 27	
313-40	HD 188350	19 49.6	+00 01		"	10	6/4	19 32	19 50	
24/20	14 Cep.	21 58.7	+57 31	I25	E103aL	.008	+4	20 18	20 26	4
"	" "	"	"	"	"	"	"	20 26	20 30	
24/21	9 Cy	21 39.8	16 53	"	"	"	"	20 46	20 52	1
314-40	HD 211336	22 11.4	+56 33	5200	-3300	10	6/1	21 16	21 34	
315-40	HD 213306 (Scep)	22 25.4	+57 54		"	"	6/2	21 38	21 55	
316-40	HD 213306	22 25.4	+57 54		"	"	6/2	21 56	22 14	
317-40	HD 211336	22 11.4	+56 33		"	"	6/1	22 20	22 39	
318-40	HD 1070	0 09.9	+59 15	5000	-3900	"	6/7	22 48	23 22	
319-40	HD 14143	2 12.2	+36 43		"	"	6/6	23 29	00 03	

OVER

Dome Temp. +37° F

Focus

Dome Temp.

Transparency Conditions Clear

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
0 42 W	+0 11	8"	3.57	A0	30"	4 Apec	2"/min.	
1 06 W	+0 56	6	Var	Var	"	"	"	
1 25 W	"	"	"	"	"	"	"	
							repeated and half	
							Something odd (1st two	
1 56 W	+0 12	8	5.57	A0	"	"	"	but
0 23 W	57 46	0	5.3	09V	12	set 2	Locke and Vanderwerf weaker	good
0 28 W	57 46	"	"	"	"	set 8	Student	good
1 08 W	17 07	0	5.6	G5IB	12	set 2	Observing!	good
1 10 W	19 09	"	"	"	"	set	Strickland and Campbell	fair
1 20 W	+56 50	7	4.51	F0	30	4 Apec	2"/min.	
1 27 W	+58 12	6	Var	Var	"	"	"	
1 45 W	"	"	"	"	"	"	"	
2 25 W	+56 48	7	4.51	F0	"	"	"	
1 08 W	+59 32	6	8.2	A2	"	1 Apec	"	
0 14 E	+56 58	6	6.7	B1	"	"	"	

Date Oct 25/26/57 Cont'd Observer — Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 3.3	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
24122	HD 19445	03 02.5	+25 58	I-25	E 103a-0	.008	3.2	00 26	02 40	2
24123	" +19409	06 43.2	+07 45	"	"	"	3.2	02 51	05 31	
	Focus Test.		67.13							

1957 October 26-27 Saturday N, MR, BK
Cloudy with snowflurries
Three talks, 7, 8, 9 p.m. divided between MR + N
About 320 visitors (+ many telephone calls)

Dome Temp. +31°F
Focus 15.260
Dome Temp. +29

Transparency Conditions Good.

10

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	26 08	0	8.52	F, VI	4-4-4	Set 2 Se-Hv.	weak
00 45	+07 39	0	8.53	G0 V	4-4-4	" 8 "	too weak
					15/10	" 5	O.K.
						2 P.H
					Oct 28	mTw ME +53.9 -1.1	

Date Mon-Tue. Oct 28/29 Observer MR-HN Julian Day 2436140

⊙ 215 11 55.8 3597.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
320-41	α Cyg	20 40.1	+45 08	4580	-4240	10"	4/5	23:52		
321-41	55 Cyg	20 47.5	+45 58	4460	-4240	"	6/3	00:10		
322-41	HD 218440	23 05.5	+19 32	4515	-4240	"	6/5	00:26		
323-41	ι And	23 36.1	+43 03	4506	-4270	"	5/6	00:42		
2424	L And	23 33.2	+42 43	I-25	103a-0	.008	+7.5	23:33	23:34	4
"	ι And	23 33.2	+42 43	I-25	"	"	"	23:41	23:43	"
"	L And	23 33.2	+42 43	I-25	"	"	"	23:47	23:48	"
2425	HD 16397	02 32.7	+30 24	"	"	"	+7.0*	00 17	0117	2
2426	" 19485	03 00.3	+25 13	"	"	"	6.8	01 35	0159	3
										"

Dome Temp. +40°

Focus 15.31

Dome Temp.

Transparency Conditions Slt. fog, thin clouds

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
—	+45° 08	"	1.35	A2Ia	30°	2°/min 1A/sec.	
+3:33	+45 58		5.22	B3Ia	"	" "	
+1:33	+59 32		4.5	B2V	"	" "	
+1:14	+43 01		4.28	B8V	"	" " abs. 4350 – 3800	
2:10W	43 00	1	4.2	B8V	10s	set 2.(1m) Astronomy 5 (8Per)	hm
2:18W	43 "	"	"	"	"	set 5 (2m) " " (V Seeing)	good
2:31W	"	"	"	"	"	set 8 (5½m) " " (8Per)	slimy
0052W	30 37	1	7.92	GIV	1-4-4	" 2 Sc. Hv. * Heiz Not Set	good.
0305W	25 26	1	5.70	B5	4-8	" 5 Spot Dis. 0330 Cloud + Haze	Too much
					15/10	" 9	O.K.
						2 P.H.	
						mc Sc MTW STW S SW MG	
					Oct 30	-33.4 -47.5 +1.1 +1.5 +16.3 -48.9 -3.2	

13

Date Fri Sat Nov 1-2, 1957 Observer O, MR Julian Day 24 36144

⊙ 219 11 57.1 3604.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
324-42	HD 211336	22 11.4	+56 33	3260	3300	10"	6/1	17 00	18 18	
325-42	HD 213306	22 25.4	+57 54	"		"	6/2	18 22	18 40	
326-42	HD 213306	22 23.4	+57 54	"		"	6/2	18 42	18 59	
327-42	HD 211336	22 11.4	+56 33	"		"	6/1	19 04	19 21	
328-42	HD 201091	21 02.4	+38 15		"	"	6/5	19 46		
329-42	61 Cyg	20 50.1	+45 08	H/3, H5+A5		"	4/6	20 06	20 37	
330-42	61 Cyg	20 47.5	+45 58	H/3, H5+A5		"	6/4	20 43	21 13	
331-42	ADS 15485A	21 50.8	+45 37	H-8		"	6/4	21 21	21 33	
332-42	ADS 15485B	"	"	"		"	6/5	21 34	21 49	
333-42	ADS 15942 H+S	21 26.1	+37 15	"		"	"	21 55	22 05	
334-42	AH Cep	22 46.3	+64 51	"		"	6/7	22 13	22 25	
24121	C CAS	01 [illegible]	+63 10	I-25	103a-0	0.008	11.4	23 10	23 12	3
"	"	"	"	"	"	"	"	23 13	23 16	"
	"		"	"	"	"	"	23 17	23 17.4	"
335-42	"	01 [illegible]	+63 [illegible]	4960-3250		10	5/4	23 39	23 46	
336-42	"	"		H6		"	5/5	23 50		

Dome Temp. +54° F.
Focus 15.37
Dome Temp.

Transparency Conditions Clear
Some Low haze.

14

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
1 29E	+56 50	4"	4.51	F0	30"	4A/sec 2"/mm		
1 21E	+58 11	"	Var	Var	"	"	"	
1 02E	+58 11	"	"	"	"	"	"	
0 26E	+56 50	"	4.51	F0	"	"	"	
	+38 32	"	6.38	K5 V	"	"	" 61 Cyg N comp.	
2:24W	+45 06	"	1.35	A2Ia	"	1A/sec	"	
2:52W	+45 56	"	5.22	B3Ia	"	"	"	
2:08W	+55 36	"	5.5	B6	"	"	"	} thin
2:25W	"	"	6.0	B7?	"	"	"	}
2:07W	+37 11	"	6.8	B3	"	"	"	both comp.
	+64 20	"	7.1	B0.5 V m	"	"	"	" "
0:12E	+63 26	0	3.2	B3 IV	12°	cut 2	2 m	} KM filled
0:08E	"	"	"	"	12s	cut 5	1 m	
0:06E	"	"	"	"	12s	cut 8	½ m	
0:22W	"	4"	"	"	30"	4A/sec 2"/mm		
	"	"	"	"	"	1A/sec	"	

Date Nov. 1-2/57 Observer -Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
337-42	17 Tau	3 42.5	+24 00	Hγ	–	10	5/5	00:37	00:55	
338-42	19 "	03 42.9	24 21				5/6	01 07	01:19	
339-42	16 "	03 42.5	24 10		"		6/4	01 32	01 45	
340-42	18 "	03 42.6	24 44				"	01 56	02:08	
341-42	21 "	03 42.6	24 36				"	02 25	02 36	

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0035E	24° 00′	4″	3.81	B6 III	30″	1A/sec 2″/min	
0004W	24 21		1.37	B6 V			
0020.1	24 10		5.43	B7 IV			
0053W			5.63	B8 V			
0120W	24 25		5.65	B8 V		Field checks.	
						0300 Do not feel well	
					Nov. 4	MC SC MTW STW S SW ME	
						-38.5 -48.4 +13.2 +3.5.2 +16.3 -24.3 -1.9	

Date Nov 4-5, Mon-Tues, 1937 Observer O.M.S. - ltr Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.B
342-43	HD 211336	22 11.4	+56 33	5200 -	3300	10	6/1	18 29	18 37	
343-43	HD 213306	22 25.4	+57 54		"	10	6/2	18 41	18 49	
344-43	HD 213306	22 25.4	+57 54		"	"	6/2	18 50	18 58	
345-43	HD 211336	22 11.4	+56 33		"	"	6/1	19 02	19 10	
346-43	HD 211336	22 11.4	+56 33		"	"	6/1	19 12	19 20	
347-43	HD 213306	22 25.4	+57 54		"	"	6/2	19 25	19 33	
348-43	HD 213306	22 25.4	+57 54		"	"	6/2	19 34	19 42	
349-43	HD 211336	22 11.4	+56 33		"	"	6/1	19 46	19 54	
350 43	HD 211336	22 11.4	+56 33		"	"	6/1	19 54	20 01	

Dome Temp. +44° F

Focus

Dome Temp.

Transparency Conditions Cloudy at sunset
Clearing suddenly.

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8 37	0 59.E	+56 49	4	4.51	FO	30"	4A/rec 2" / min. One way only.	
8 49	1 00 E	+58 11	"	Var	Var	"		
8 53	0 51 E	+58 11	"	Var	Var	"		
9 10	0 25 E	+56 51	"	4.51	FO	"	" "	
9 23	0 15 E	+56 51	"	4.51	FO	"	" "	
9 33	0 16 E	+58 11		Var	Var	"	" "	
9 42	0 07 E	+58 11	"	"	"	"		
9 54	0 20 W	+56 50	"	4.51	FO	"	" "	
21 01	0 26 W	"	"	"	"	"		

Home & School Grp. 40 coll 8:30–9:30
return E Cas. last clear sk — 5 coll obj
at meridian — MK.

19

Date Nov 5-6, Tues Wed / 57 Observer O - Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E
351-44	HD 211336	22 11.4	+56 33	5200 -	3350	10	6/1	20 06	20 14	
352-44	HD 213306	22 25.4	+57 54		"	10	6/3	20 18	20 26	
353-44	HD 213306	22 25.4	+57 54		"	10	6/3	20 28	20 36	
354-44	HD 211336	22 11.4	+56 33	"		10	6/1	20 40	20 47	
355-44	HD 211336	22 11.4	+56 33		"	10	6/1	20 50	20 56	
356-44	HD 213306	22 25.4	+57 54		"	10	6/3	21 02	21 10	
357-44	HD 213306	22 25.4	+57 54		"	10	6/3	21 11	21 19	
358-44	HD 211336	22 11.4	+56 33		"	10	6/1	21 23	21 31	
359-44	HD 358	0 03.2	+28 32	5000 -		10	5/2	21 53		

Dome Temp. +41°

Focus

Dome Temp.

Transparency Conditions Cloudy Clearing quickly at 19:30

20

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
H	0 43W	+56 50	6	4.51	Fo	30	4A/sec 2"/min	PLEASE
36	0 41W	+58 11	6	Var	Var	"	" "	REPLACE
36	0 51W	+58 11	4	"	"	"	" "	DEC CLAMP
42	1 17W	+56 50	4	4.51	Fo	"	" "	TELESCOPE
52	1 27W	+56 50	5	4.51	Fo	"	" "	DRIFTS.
10	1 25W	+58 11	5	Var	Var	"	" "	J.B.O.
19	1 34W	+58 11	"	"	"	"	" "	
31	2 00W	+56 50	"	4.51	Fo	"	" "	
		+28 50	7	2.4	Ao	"	1A/sec " X Clouds	

	SC	mTW	STW	S	SW	ME
Neo.7.	-48.6	+13.6	+0.7 in	+17.4	-28.9	-0.1

Date Sept. Nos 10-11 Observer Se – Julian Day 2436152

⊙ 228 13 37.6 3620.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24128 *	HD 221914	23h 31.0	+17° 53	I-75	I 103a0	cal rear	+0.5°C	19h 45s		L
~~24128~~										
24129	HD 6582	1h 1.6	+54° 26	"	"	"		21h 30m	21h 3[illegible]	
	"	"	"	"	"	"		21h 52	2[illegible]	

* Note: Plate number 24128 (marked in error 24127) does not exist.

Dome Temp. +29°E

Focus 15.23

Dome Temp.

Transparency Conditions Some cloud yesterday NE.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+18° 10'	0	8.3	G5V	4	Set 2 Sc-HV	
						NG! Declination slow motion gone at.	
0h 14m E	+34° 41'	0	5.91	G5VI	4-4-4	Set 2 Sc-HV	fine
0h 43m W	"	"	"	"	4-4-4	Set 8 Clouds	

23

Date Iwo Jima Nov 12/13, 1945 Observer PK Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
360-45	NGC 7331	22 11 3	+34 33	5200	3350	10	6/1	19 41	19 49	
361-45	-"-							19 51	19 58	
362-45	NGC 7320	22 32 55	+33 54				6/2	20 10	20 17	
363-45	-"-							20 20	20 28	
364-45	-"-							20 30	20 40	
365-45	-"-							20 50	20 58	
366-45	NGC 7331	22 11 3	+34 33				6/1	20 59	21 02	

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions Some cloud after sunset clearing, then hazy again

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						30"	2"/min 1 A/rec	
	1 32 W							
	2 00 W							

cloud cover.

	NE	SE	mTW	sTW	S	SW	mE
Nov. 13	-35.5	-58.3	+5.4	+0.6	+18.0	-44.5	+1.1
	-33.4	-58.4	+3.9	+0.7	+18.9	+0.4	-2.2
	-31.1	+1.2	+3.8	+0.7	+20.1	+0.2	-4.1
Nov. 20	-31.0	-4.1	+1.2	+0.8	+23.4	-3.6	-3.1
Nov. 22	-29.9	-6.2	-1.3	+0.8	+20.9	-2.4	-2.3
" 25	-27.9	-10.2	-3.7	+0.8	+20.2	-1.0	-0.2

25

Date June 9/10 26-27/57 Observer L-H Julian Day 2436169.

⊙ 244 22 32.5 3645.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
24130	H.D. 199580	20 53.1	42 30	I-25	E-103A0	set .008	-.2	18 40	20 40	3
24131	" 20559	03 13.3	-01 18	"	"	"	-.2	22 10	22 34	3
24132	" 22879	03 35.3	-03 32	"	"	"	-.3	22 39	23 03	4
24133	" 15228	02 22.1	09 45	"	"	"	-0.6	23 43	00 13	4
24134	" 19485	03 02.8	25 13	"	"	"	-0.5	00 42	03 41	1
	Moon Jet		O.T.B.							

Dome Temp. +26°F
Focus 15.13
Dome Temp.

Transparency Conditions Haze

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	3 50W	42 44	0	8.15	K1 IV	4-4-4	Set 2 0 H.V. haze toward end Spectacular!!! Aurora 21 10 – 21 30	good
	0 38E	-01 07	0	6.41	K1 IV	4-4-4	Set 8 0 H.V.	good.
	0 07W	-03 24	0	7.23	F9 V	4-4-4	Set 2 Se H.V. guiding	good (?)
	0 20 4W	10 00	0	6.95	F5 V	4-4-4	Set 8 Se W.V.	fine
	0 4 25W	25 26	0	8.7	G-5	4-4-4	" 5 Spect Bin.	Too weak
						15/10	" 9	OK.

I.P.H. +42

QUITE HAZY

	MC	SC	MTW	STW	S	SW	ME
Nov. 27	-25.2	-13.2	-11.3	+0m.6	+20.6	+1.9	-0.2
29	-24.2	-15.4	-18.1	+0m.5	+20.1	+5.0	-4.8
Dec. 2	-22.6	-19.5	-38.4	+0m.2	+20.0	+5.3	+2.3

Date Dec 2/3/52 Observer MR - HLS Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
367-46	Hyades	18 35.6	+38 45	H/B; H8-H8		10	4/3	18:27	—	
368-46	ADS 15405A	21 50.8	+37 15	H8		"	6/4	19:15	—	
369-46	" B	"	"	"		"	6/5	—	19:36	
370-46	ADS 16417A	23 00.9	+43 50	H8		"	"	19:47	20:03	
371-46	ADS 36A	00 02.7	+58 18	H8		"	6/6	20:27	20:38	
372-46	16 Jan	03 02.5	+24 10	H8		"	6/4	20:56	21:07	
373-46	17 "	"	+24 00	H8		"	5/5	21:12	21:23	
374-46	18 "	03 02.5	+24 54	H8		"	6/	22:13	22:14	
375-46	19 "	03 02.9	+24 21	H8		"	5/6	22:29	22:40	
376-46	21 "	03 03.6	+24 26	H8		"	5/4	22:46	22:56	
377-46	31 "	03 05.1	+23 57	H8		"	5/3	23:05	23:20	
							-3.0			

Dome Temp.... +25° F (00h40m)

Focus.....

Dome Temp.....

Transparency Conditions .....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
–	–	+38 45	10"	0,04	A0 V	30"	1M/sec 2"/sec Had 6" change chart – ho lock for long	
–	–	+55° 36	5"	55:	B6:	"	" "	
2:32	2:18W	"	"	"	"	"	" " } Dm	
23:09	1:31W	+43 50	"	6.3	B3	"	including ft. comp.	
20:39	1:04W	+58 18	"	6.5	B3	"	✓ ft comp outside field, neither ft in field	
21:5	2:06E	+24 09	"	5.43	B7 IV	"		
21:23	1:50E	+23 58	"	3 81	B6 III	"		
21:14	0:49E	+24 42	"	5.63	B8 V	"	Cldy interval	
21:W	0:34E	+24 20	"	4.37	B6 V	"		
21	0:18E	+24 24	"	5 81	A3 V	"		
21:1	0:04W	+23 57	"	2 56	B7 V	"	Dark plunger tube Check I night IPH.	
							Clear or Cloudy intervals Till 3:00 then Thin cirrus in solidly	
							mc sa MW STW S SW mE	
						Dec 4	-21.0 -21.4 -49.2 -0.85 +25.0 +5.8 -1.1	

29

Date Wed-Thurs Dec 4/5, 1957 Observer RK — Julian Day 2436177

⊙ 252 23 02.8 3652.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.A.
326-47	HD 21336	22 11 2	+57 23	5213	-3300	10	6/1	15 32	16 08	
327-47	"			5213	-3300		6/1	19 26	19 45	
330-47	HD 21336			3300	-5213		5/5	20 51	19 39	
331-47	"			5213	-3300		5/5	20 00	20 13	232
332-47	HD 21336			3300	-5213		6/1	20 16	20 36	
333-47	"			5213	-3300		6/1	20 26	20 35	
334-47	HD 213306			3300	5213		5/5	20 41	20 57	
335-47	"			5213	-3300		5/5	20 45	21 09	
336-47	HD 21336			3300	-5213		6/1	21 10	21 24	
337-47	"			5213	-3300		6/1	21 30	21 39	
338-47	HD 213306			3300	-5213		5/5	21 32	21 42	
339-47	"			5213	-3300		5/5	21 42	21 51	
340-47	HD 21336			3300	-5213		6/1	21 56	22 04	
2125	N Cass	01 05 [illegible]	+55 [illegible]	I-N	E(W)-[illegible]	10	5 0	22 38	22 [illegible]	2
								22 41	22 44	

Dome Temp. +22°F

Focus 15.17

Dome Temp.

Transparency Conditions Very good

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						4 A/mm 2"/mi	
						4 A/mm	
2 32	54.2						
2 49 W	56 53						
2 05 W							
4 48 W							
4 03 W							
	+54.55	1	4	A7V		Coutts + Dell	
2 14 W					12	7	

31

Date Dec 4/5 1900 Observer BK - HV Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
[illegible]	2 Cas	01 47.2	+62 10	1-15	[illegible]	.008		23 37	23 72	1
								23 [illegible]	[illegible]	
24137	H.D. 51219	06 51.4	+01 18	"	"	"	-4.0	00 12	0242	
24138	" 78558	09 03.2	-14 44	"	"	"		02 50	0402	
	Plates Dect		0918.							

Dome Temp.... .....

Focus.....

Dome Temp.... .....

Transparency Conditions .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	63 27	1	3·2	B2 V		set 2 Stauffer	
21 10					12		
00 25 W	+01 13	0	8.12	G8 V	4-4-4	" 2 Se-HV.	fine
0.15 E	-15 00	0	7.93	G2 V	4-8	" 8 " " 0355 Clouds.	too much
					15/10	" 5	Focus bad
						2 P.H.	clouded

Hand switch fell on floor and BROKE!!

	mc	sc	mTw	sTw	S	SW	ME
Dec. 6	-20.1	-24.0	+1.1	-0m.1	+20.3	+9.1	-2.3
	-17.3	-2?.9	+21.8	+0m.1	+13.7	+3.9	-0.4
	-14.9	-30.3	+43.9	+0m.4	+19.9	+9.7	-0.8

33

Date Wed-Thurs Dec 11/12, 1957 Observer BK- Julian Day 2436184

⊙ 259 35 34.0 3660.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
24 50	MS 2157 B	03 42 4	+55 29	I-25	E103-aO	set .008	-7 2	18 20	21 50	4	

Dome Temp. +2°C

Focus 15.11

Dome Temp.

Transparency Conditions Good

ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	044E	54 44	0	84	45	4-4-4	~~2~~ BK-URF Cloud from N at 20:40 closed at 21h ; snow! 3+4 +2	Focus bad. Do not use

35

Date Thurs Dec 12-13/57 Observer L- Julian Day 2436185

⊙ 260 36 34.1 3661.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End
24140	HD. 221565	23 28.2	62 36	I-25	E-103A0	.01 .005	-9.5	18 13	19 55	1	.33W
24141	" 6734	01 02.9	01 28	"	"	"	-9.7	20 01	20 55	1	.53W

ome Temp. +10°F
ocus 15.09
ome Temp. +9°F

Transparency Conditions Good

nding Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9 55	1 33 W	62 55	0	8.16	G8 III	4-4-4	Lost time finding star. Set 2 0 W.U. prog. ✓	Focus bad
0 55	0 53 W	01 46	0	7.31	K6 III	4-4-4	" 8 " " " ✓ clouds on these. seeing in W toward end of exp. then clouding over Don't Use.

2 Pt ? ± 2

	mc	sc	mTw	sTw	s	sw	mc
Dec. 13	-14.9	-32.7	+1.9	-0.5	+19.8	+12.9	-0.3
	-10.9	-37.4	-14.7	-0.6	+20.1	+16.6	+1.1
	-5.7	-40.5	-18.1	-0.9	+21.5	+20.3	-3.5

37

Date Sun Dec 22-23/57 Observer HdL Julian Day 2436195.

⊙ 270 47 25.7 3668.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24142	# 176 BD 47° 752	3 06.1	+47 52	I-25	E103a0	008	+40	18 55	19 47	Z
24143	# 581 BD 48°403 Focus Test	3 16.2	48 16	"	"	"	+4.0	19 52	20 40	Z
24144	# 692 BD 47° 821	3 19.1	48 23	"	"	"		20 52		3

Dome Temp. 35
Focus 15 26 (set according to table)
Dome Temp.

Transparency Conditions Clearing after sunset

Note re Focus I believe the focus was set at 14.59 when I found it. If so, how long has it been set .50 too low? Jan 5
Later — apparently focus very bad since Dec 4

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
E 1 36	48 01	0	6.7	G5	4-4-4	Set 2 α Per cluster some clouds	good
E 53m	48 20	1	6.8	B9	4-4-4	" 9 " "	strong
		OTB			10/7	" 5½	C & red
			7.4	A0	4	" 2 " " Clouds	

39

Date Tues Dec 24-25/57 Observer L Julian Day 2436137.

⊙ 272 43 42.9 3668.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24144	HD. 221585	23 28.2	62 36	I-25	E-103A.	set 008	+2.8	18 24	20 14	4
24145	BD. #176 47 782	03 06.1	47 52	"	"	"	+2.8	20 29	21 09	II
24146	" #581 48 903	03 16.6	48 16	"	"	"	+2.8	21 12	21 52	I
24147	" #692 47 821	03 19.1	48 03	"	"	"	+2.6	21 55	22 51	2
	Focus Test			O.T.F.						

ome Temp. +32° F

Transparency Conditions Good

40

ocus 15.26

ome Temp.

nding Time E.S.T.	ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 14	2 38W	62 55	0	8.16	G8 IV	444	Set 2	0 H.V. Prog.
21 [illegible]	0 06E	48 01	0	6.7	G5	44-4	Set 2	& Persei Elust.
21 52	0 27W	48 26	0	6.8	B9	4-44	" 8	" "
22 51	1 24W	48 13	0	7.4	A0	444	" 2	" "
						15/10	" 8	
							3 P.Hrs loaded + 8	
						Dec. 26	mc sc MTW STW S SW ME	
							-1.5 -58.7 +12.7 -0.9 +21.7 -1.5 +1.3	

41

Date Sun-Mon Dec 29/30 1957 Observer tsk — Julian Day 2436202

⊙ 277 55 27.3 3668.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Hour Angle End
24142	ADS 1425	01 42 4	+07 11	I-75	E103a-O	2L .008	-05	19 50	21 50	1	(10)
	Mag 6.7p										

Dome Temp. 26° F

Focus 15 30

Dome Temp.

Transparency Conditions Clearing after sunset Fair

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	2 20	7 26	0	82	KO	4-4-4	set 2 3k-42	Cloud 1 - 20h30
								Clear 1 - 21 30
						Dec. 30	MC SC	MTW STW S SW ME
							+0.2 -54.4	-18.1 -0.9 +21.4 -1.6 -1.2
							+2.8 +1.2	-20.4 -0.9 +21.7 +4.6 +1.8

43

Date Fri Jan 3-4/58 Observer Hd - DB Julian Day 2436207.

⊙ 283 01 09.2 3667.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24149	2 Pe Hunter #692, SD 47 821 #1735	3 19.1	48 03	I 25	E103aD	008	-9.3	18 41	19 49 2
24150	SD 47 828 #802	3 20.0	47 52	"	"	"	-9.5	20 05	20 55 2
24151	SD 47 [illegible]	3 21.4	49 03	"	"	016	-9.3	21 18 M	2 - 35
24152	HD 35 818	5 22.3	+12 50	"	"	.008	-9.4	9 55	0 45

must be 23 55 - Hd

Dome Temp. +4F

Focus 15.11

Dome Temp. 0° F

Transparency Conditions Fair

Spent some Time Trying to act on HD 11696 the Underfield book, I check I see what's wrong.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 49 2	E 1 01	48 12	00	7.4	A0	4-4-4	Set 2 2 Per Prog.	Too weak
20 52	W 6m	48 03	0	6.8	B9	4-8	" 8 " " " Dark Nebulosity	Weak
21 55	W 1 47	49 15	0	8.5	A3 :	2-2	set 5 " " " Cloudy	Weak
22	W 2 56	-12 52	0	7.7	A0	4-4-4	set 2 K.A. program 2 Testmoni[illegible]	Weak

Tried unsuccessfully to unclamp declination. Closed the dome at 01:00 EST

3 PH + 4

	MC	SC	MTW	STW	S	SW	ME
Jan. 6	+6.0	-0.5	+8.8	-0m.5	+22.8	+9.3	+2.2
8	+7.8	-2.5	+19.6	-0m.1	+23.4	+10.8	+1.6

Jan 8/58 Closed To 12" Cassegrain

25 mm { Time 15.10 / Tilt 23.15 } 12" { Time 12.10 / Tilt 10.35 }

45

Date Wed Jan 8-9, 1958 Observer Bk Hd - Hv Julian Day 2436 212

⊙ 288 06 47.6 3667.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24153	ADS 8093 B	4 10.8	−7 47	I-12	E103a-O	008	−11.8	18 24	[illegible]
24154	HD 19236	04 42	+15 49	"	"	"	"	[illegible]	01 30
24155	ADS 8489 B	12 11.1	41 13	"	"	"	"	01 50	05 20
24156	HD 102076	12 19.9	38 52	"	"	"	"	05 16	06 30
	[illegible]								

Dome Temp. +11F

Focus 12.90

Dome Temp. +11°F

Transparency Conditions Good

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0 46	-7 46	0	9.6	A2	2-2-2	Ret 2 Bk Vis Bin, F.	fine ~~too weak~~
01 30	0 40 W	15 56	0	8.0	Ma	2-2-2	ret 2 KA mag. at Zenith 11?? Fair Tel Heard!	too weak.
0500	0 18 E	40 53	0	9.3	Go	2-2-2	" 8 Bk VBF	~~poor~~ strong ~~fair~~ fine ~~Good~~
	0 10 W	38 33	0	8.59	G.V	2-2-2	" 2 Se Hv. 0530 Thin Cloud. 0620 Thick Cloud.	
						3/6	" 2	c6 red

I.P.H. +3.

47

Date Thur Fri Jan 9-10, 1958 Observer O- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
391-48	HD211336	22 11.4	+56 33	52cm	3300	10	6/1	17 53	18 01	
392-48	HD213306 (Step)	22 25.4	+57 54	"		"	6/3	17 05	18 13	
393-48	HD213306	22 25.4	+57 54	"		"	6/3	18 14	18 22	
394-48	HD211336	22 11.4	+56 33	"		"	6/1	18 26	18 34	
395-48	HD211336	"	"	"		"	6/1	18 34	18 42	
396-48	HD213306	22 25.4	+57 54	"		"	6/3	18 44	18 51	
397-48	"	"					6/3	18 58	19 06	
398-48	HD211336	22 11.4	+56 33	"		4	6/1	19 10	19 18	
399-48	HD24760	3 51.1	+39 43	"	x2	"	5/4-3	19 44	20 09	
400-48	HD20902	3 17.2	+49 30	"	x2	"	5/4-2	20 15	20 32	
401-48	HD26630	4 07.6	+48 09	"		"	6/2	20 37	20 54	
402-48	HD23230	3 38.4	+42 16	"		"	6/2½	20 58	21 16	
403-48	HD24760	3 51.1	+39 43	"		"	5/3	21 20	21 43	
	Calib I Cover 5 and 6 steps using									
6 1/2										

Dome Temp. +25°F

Focus

Dome Temp.

Transparency Conditions Clear. Haze low on horizon

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8 01	2 46W		3"	4.51	Fo	30"	4A/sec 2"/min.	
8 13	2 44W	+58 12	3	Var	Var	"	" " 72	
5 22		"	"	"	"	"	" "	
8 34	3 19W			4.51	Fo	"	" "	
5 42		+56 48		"	"	"	" " 56	
5 50	3 27W	+58 12	3	Var	Var	"	" "	
11 56		"	"	"	"	"		
1 15	4 04W	+56 48		4.51	Fo	"	" "	
2 04	0 47E	+39 53	"	2.71	Ba.5V	"	" Maltby 5/3 Stand.	
2 32	0 09W	+49 42		2.28	F5V6			
2 57	0 19E	+48 16		4.7	Gaih	"	"	
3 16	0 32W	+42 26	"	4.3	F5II	"	"	
4 41	0 48W	+39 53		2.71	Ba5	"	"	

Date Jan 9-10 (cont'd) Observer O-H-V Julian Day 2436213

⊙ 289 0Y 55.1 3667.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
404-48	HD 44990	6 19.8	+7 08	52"	3 ×2	10	6/7	22 12	22 30	
405-48	HD 44109	6 14.9	+7 45	"	"	"	6/7	22 40	22 59	
406-48	HD 44109	"	"	"	"	"	6/6	23 00	23 19	
407-48	HD 44990	6 19.8	7 08	"	"	"	6/7	23 24	23 42	
24157	B.D. +8° 1402 RW Mon	06 29.3	+08 54	I 12½	E 1030	.016	-4.7	00 17	02 17	1

7h — 7h. D 7B

Dome Temp.....

Focus.....

Dome Temp. +2 H

Transparency Conditions Some haze

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 54E	+7 04	3	Var	Var	30"		
0 20E	+7 40	"	6.7	B9	"	30	
0 01W	"	"	"	"	"		
	+7 04	"	Var	Var	"	Clouds in SW coming in	
2 45W	+62 50	0 0	8.9 -11.5	A0	1-1-1	Set. 2	Windy, Image Jumping,
					4/3	" 8	Have Some Cloud.

1 P.H. +2.

	MC	SC	MTW	STW	S	SW	ME
Jan. 10	+10.4	-3.2	+20.2	+0.1	+23.6	+0.9	-1.8

51

Date Sat Sun Jan 11 12/57 Observer O Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
408-49	HD 211336	22 11.4	+56 33	52cm	31-00	10	6/1	18 11	18 19	
409-49	HD 213306	22 25.4	+57 54	"	"	"	6/1	18 24	18 32	
410-49	"	"	"	"	"	"	6/1	18 33	18 41	
411-49	HD 211336	22 11.4	+53 33	"	"	"	6/1	18 45	18 53	
412-49	"	"	"	"	"	"	6/1	18 54	19 02	
413-49	HD 213306	22 25.4	+57 54				6/1	19 08	19 16	
414-49	"	"	"				6/1	19 17	19 25	
415-49	HD 211336	22 11.4	+56 33				6/1	19 30	19 39	
416-49	HD 4727	0 44.3	+40 32	"	"	"	6/1	19 52	20 09	
417-49	HD 24760	3 51.1	+39 43	"	"	"	5/3	20 15	20 34	
418-49	HD 14947	2 19.5	+38 25	"	"	"	6/5	20 42	21 01	
419-49	HD 4727	0 44.3	+40 32	"	"	"	6/1	21 15	21 33	
420-49	HD 21447	3 22.4	+55 05	"	"	"	6/2	21 39	21 57	
421-49	HD 14107	2 14.3	+57 45	"	"	"	6/1	22 16	22 24	
422-49	"	"	"	"	"	"	6/1	22 27	22 35	
423-49	HD 41330	6 19.8	+7 05	"	"	"	6/2	22 40	22 48	

Dome Temp.....

Focus.....+10° F.....

Dome Temp.....

Transparency Conditions ... Clear .....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS		Quality
18 19	3 12W	+56 50	Bad	451	F0	30	4N/sec 2"/min	60	
17 32	3 11W	+58 12	"	Var	Var			7:	
19 41	-	"		"	"				
16 52	3 46W	56 49	"	451	F0	"			
17 02		"	"	"	"	"			
17 [illegible]				Var	Var			75	
17 25		+56 11		"	"		Some shutter down		
19 39	4 31W			451	A0				
21 01	2 29W	+40 51	"	4.37	B5	"	Stand Star.	61	
23 24	0 14E	+39 53	10	2.11	B0.5	"		8:	
21 51	1 52W	+58 39	"	6.14	VR	"			
21 13	3 52W	+40 50		4.37	B5			67	
21 52	1 37W	+55 16	"	5.08	A1	"		65	
22 24	0 47E	+7 43	"	6.7	B9	"		76	
22 35		"		"	"		11.7	16	
22 48	0 28E	+7 05	"	Var	Var	"	"	69	

53

cont'd.

Date Sat Sun Jan 11-12/57 Observer O Julian Day 2436215

⊙ 291 10 10.2 3667.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
424-49	HD 44990	6 19.8	+7 08	5249	03-0	10	6/2 H	22 49	22 57	
425-49	HD 44109	6 14.9	+7 45	"		"	6/1 H	23 04	23 12	
426-49	"	"	"		"	"	6/6	23 15	23 23	
427-49	HD 44990	6 19.8	7 08		"	"	6/7	23 27	23 35	
428-49	"	"	"		"	"	6/7	23 36	23 44	
429-49	HD 44109	6 14.9	+7 45		"	"	6/6	23 47	23 55	
430-49	"	"	"		"	"	6/6	23 56	00 04	
24152	AGO 95163	12 15.2	+39 27	I-12	E103-a-0	2L 016	-10.2	00 46	0[illegible]	2
	Fowler Tape O.T.B.									

ome Temp.....

ocus.....

ome Temp.....

Transparency Conditions Clear

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 57		+7 05	8	Var	Var	30		
23 12		+7 43	"	6.7	B9			
23 20	0 13W	"	"	"	"	"	14 -	
23 35			8	Var	Var	"	9	
23 44	0 29W	+7 04	6	"	"			
23 55	0 45W	+7 43	6	6.7	B9	"		
0 05		"	"	"	"	"		
0 [illegible]	1 36W	30 05	0	106	F7	1-1-1	pole 2 tk - 0k F	Fair
						4/3	8	OK

2 FH [illegible]

	MC	SC	MTW	STW	G	SW	ME
Jan. 13	+13.1	-6.2	+46.9	-0.9	+23.9	+17.3	+3.6

55

Date Mon Tue Jan 13/14 1958 Observer MK — HF Julian Day 2436217

⊙ 293 12 25.2 3667.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24159	BD +47°821	3 19.1	+48 03	I-12	103a-O	.008	-0.5°C	21:14	22:22	3
24160	BD +8°1402	6 24.3	+8 54	"	"	.016	-1.5	22:54	00 06	
	[illegible]									

ome Temp. +25°1=

ocus

ome Temp.

Transparency Conditions hazy

Need some new finder in the dome O.K.

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 22	2:14 W	+48° 13′	0	7.4	A0:	2-2-2	set 2 [illegible] X-α Per #692	watery
02 06		+8 51	0	8.9	A0	1-1-1	set 8 RW Mon 0330 Clouds	fair
						4/3	" 7 02 40 Haze	OK

R Hi +11

Last B on Plate

	NC	SC	NTW	STW	S	SW	NE
Jan. 15	+15.0	-6.6	-3.8	+0.8	+24.6	+18.2	+1.2
17	+16.3	-7.4	-2.6	+0.3	+25.4	+22.5	-1.4

57

Date Sat Jan 18-19/58 Observer L - H Julian Day 2436222

⊙ 298 17 59.0 3665.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24161	H.D. 19445	03 02.5	25 58	I-12½	E-103AO	5et .018	-10.2	19 58	21 43	1
24162	Roman 137	05 57.3	19 23	"	"	.016	-10.3	21 54	00 54	1
24163	HD 2901	09 24.2	+30 28	"	"	"	-10.5	01 10	04 10	2
24164	BD+30°2175	11 09.8	+29 59	"	"	"	-10.5	04 22	06 42	2
	Rowan Tree	07 13.								

Dome Temp. +10°F
Focus 12.90
Dome Temp. 0°F

Transparency Conditions Fair

Strong Wind seeing bad.

58

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 46 W	26 11	0	8.52	FnD	2-22	Set 2 Se H.V.	fair
2 28 W	19 22	0	9.24	GoI	1-1-1	" 8 " "	fair
2 20 W	30 14	0	10.09	39	1-1-1	2 KLES HVC 567	fair
2 46 W	29 35	0	9.78	G5	1-1-1	5 " " 567	fair
					4/3	8	OK

	MC	SC	MTW	STW	S	GW	ME
Jan. 20	+19.7	-8.3	+1.8	+0.9	+26.0	+17.5	+5.5
22	+21.1	-9.5	+5.2	-1.0	+25.4	+17.5	+1.3
23			-3.9				-0.6

+24 +8

59

Date Thurs Jan 23 – Jan 24 Observer Hd – Hs Julian Day 2436227

⊙ 303 23 19.2 3661.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24163	#735 BD 47° 585	3 20.0	47 52	I-12	E103a0	008	—0.8	20 04	20 30	3
24164	#702 BD 48° 924	3 21.4	49 03	"	"	"	-0.9	20 34	21 34	3
24167	#10-52 BD 48° 949	3 27.3	48 19	"	"	"	-1.0	22 03	23 13	4
24168	HD 35 979	5 23	+12 50	"	"	"	-1.0	23 31	0 51	4
24169	HD 84937	09 43.5	+14 14	"	"	"	-1.0	0101	0251	2
24170	" SB371	10 06.3	+24 15	"	"	"	-1.1	0	0	2
	✓ Focus		OT 13							

Time Temp. 22F — Hdr + Bkt runs 1957/8 at 1831-1833 — Transparency Conditions Cloudy in W. early

Focus

Time Temp. +12°F

Ending Time E.S.T.	Hr Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	W1 h 00 m	48 04	0	6.8	B9	2-2-2	Set 2 α Per cl.	strong
	W30	49 16	0	8.5	A3:	2-2-2	" 8 " "	strong
	W346	48 30	0	7.0	A0	2-2-2	" 2 " "	v strong
	3.1W	+12 53	0	7.7	A0	2-2-2	" 2 KA1 prog	0030 Thin Cloud
	2.0W	+13 58	0	2.65	F2 V	2-2-2	" 2 Se H/V.	fair
	0.3 E	+23 59	C	9.03	G2 V	2-2-2	" 8 " "	0515 Cloud. good
						8/6	" 5	weak

2 P.tl. +4

	MC	SC	NTW	STW	S	SW	ME
Jan. 24	+23.4	-8.1	+0.2	-0m.1	+26.3	+2.7	-1.4
27	+26.7	-9.3	+3.9	-0m.1	+21.8	+0.1	+0.3
29	+27.7	-9.8	-14.1	-0m.4	+17.6	+1.8	+1.8
31	+23.0	-8.6	-29.2	-0m.6	+18.1	+2.8	-0.6
Feb. 3	+21.6	-10.8	-35.6	-0m.7	+28.7	+6.4	+6.9
5	+23.4	-11.3	-34.8	-0m.8	+28.9	+7.2	+8.9
7	+35.3	-11.8	-38.8	-0m.9	+30.1	+5.3	+3.7

61

Date Fri Feb 7-8/58 Observer Hd - DJ Julian Day 2436242.
⊙ 318 36 38.3 3644.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24171	RW Mon	6 29.3	+8 54	I-2	Ξ103aD	016	-4.0	22 14	01 38 3
24172	HD108076	12 19.9	+38 52	"	"	" 003	-4.5	02 50	03 15 4

me Temp..... 15°F

Transparency Conditions .....

us.....

me Temp..... 14°F

Ending Time E.S.T.	ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 3	4 00E	+8 52	0	8.9	A0	1-1	Eclipse - 1st set 2, (see Finder [illegible])	fine
1 4		+35°36'	0	9.03	G2	2-	passing clouds Se H-V had great difficulty setting without	Nothing
							Set 2 cross-hair to [illegible]	0
							clouds at 3 15	
							closed dome at 4:15	
						3/6	Set 9 Focus Test	OK.
							1 PH + 3	

63

Date Sat Sun Feb 8-9 /1958 Observer O- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
431-50	HD 13841	2 9.8	+56 34	5000	3400	10	6/6	18 38	19 45
432-50	HD 23302	3 38.9	+23 48	HT			5/4	20 12	20 21
433-50	HD 44109	6 14.9	+7 45	5200	3400	10	6/6	20 43	20 51
434-50	HD 44990	6 19.8	+7 06	〃	〃		6/6	20 56	21 04
435-50	HD 44990	〃	〃	〃	〃	〃	6/6	21 07	21 15
436-50	HD 44109	6 14.9	+7 45	〃	〃	〃	6/6	21 30	21 37
437-50	HD 54605	7 4.3	-26 14	〃	〃	10	5/3	21 52	22 09
438-50	HD 60629	7 30.4	-25 54	〃	〃	〃	6/7	22 14	22 31
439-50	HD 44109	6 14.9	+7 45	〃	〃	〃	6/6	22 36	22 54
440-50	HD 52497	6 56.3	+24 21	〃	〃	〃	6/5	23 08	

ome Temp. +14°C

ocus

ome Temp.

Transparency Conditions Clear

Clouds on Horiz.

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 [illegible]	2 28W	+56 50	7	7.40		30	1A/sec 2"/min +Hr x 4	
20 21				3.69		"	" "	
20 51		+7 43	7	6.7	B9	"	" 11 - 5	
21 04		+7 06		Var	Var	"		
21 15	0 10E		5	"	"	"	10 5	
21	0 18W	+7 42		6.7	B9	"		
2[illegible]	0 00	-26 21	10	20	F8	"	" " SCMa	
2[illegible]	0 04E	-26 03	"	6	A0	"		
2[illegible]	1 34W	+7 40		6.7	B9		Both ways Clouds? 18	
			"	5.6	G5	"		

Clouds + prog

Feb. 10	mc	SC	mTW	STW	[illegible]	SW	MG
	+37.9	-13.6	-46.7	-0.7	+29.2	+3.0	+8.2
" 12	+39.9	-14.7	+2.1	-0.1	+29.3	+6.0	+0.2

65

Date Wed-Thu Feb 12-13 Observer Sa — Hr Julian Day 2436247.

⊙ 323 40 08.8 3638.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
441-51	HD 65583	7h 54.3	+29° 31	5600-3500		10	6/6	22 05		
52	HD 66772	7 55.3	+32 26	"	"		5/4	23 30		
24173	HD 88371	10 06.3	34 15	I-12½	E103a-O	.035	-11.0	0031	0335	
	From Tst.		OTB							

Dome Temp.....

Focus.....

Dome Temp. +3°F

Transparency Conditions .....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				7.70		G~~2~~ V	4 Al/sec	
				6.01		G4 V		
1535	0240W	23 57	00	9.03	G2 V	2-2-2	Set 2	0230 Cloud. 0300 More Cloud + Haze Se-HV 5 pts bad, weak
						8/6	" 2	
							1 P.H. +2	

67

Date Thu-Fri Feb 13-14 Observer Se - H.S Julian Day 2436248

⊙ 324 40 47.7 3637.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
441-53	HD 23850	3 43·2	+23 45	5000 - 3800		10	5/4	19:45		
442-53	HD 23630	3 41 5	+23 46	"	"	"	5/3			
443-53	HD 50634	6h 49.0	+21 42	"	"	4	6/6	22 25		
444-53	HD 52497	6h 56·3	+24 21	5000	3800	4	6/4	23 42		
24174	" 88725	10 08·9	+03 39	I-12½	E103a-0	008	-12·5	00 25	02 39	SW
	from T.A.		OTB							

ome Temp. + 8° F

Transparency Conditions

68

ocus 12.80

ome Temp.

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		+23 55		3 62	...	...	1 Å/sec + Hγ 4 times	
		+23 59		2·86			" + Hγ 4 times	
		+21 38		6.5			" + Hγ 4 times	
		+24 16		5·6	G5II		4 Å/sec W Gap	
	3115W	+03 22	00	8.3	G1V	2·4	Set 2 Se-HV. Cloud after 0100	weak (:)
						8/6	" 2	cirrus
							I P.H. +1	
						Feb. 14.	mc sc mTiO sTiO S SW ME	
							+42.1 −15.1 −7.1 −0.2 +29.2 +8.7 +2.4	

69

Date Thurs-Fri Feb 20/21, 1958 Observer BE – HS Julian Day 2436 255.

⊙ 331 44 42.0 3627.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F	Spec. angle and
24175	HD 52089	09 24 6	+30 00	I-12½	E103a-O	set .016	-7°0	23 12	- 0 52	3	2 W
	7 lines	1 set	0 7 B								

ome Temp. +12°F
ocus 12.80
ome Temp.

Transparency Conditions Broken night.
Opened at 9 o'clock.

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3½	01/2W	29 44	0	9.45	F3	1-1-1	cent 2 KAFS range	fair
						4/3	" 8	OK.
							Cloud after 1230 AM.	
							1 P.M. +12	
							SC MTW STW S SW ME	
						Feb. 21	-19.4 +10.6 +0.05 +33.5 +24.7 -2.1	

Date Sat Sun Feb 22-23/1958 Observer O Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
445 -54	HD23338	3 39.3	+24 09	5000	3900;Hr	10	5/54	18 42	19 40	
446 -54	HD 44709	6 14.9	+7 45	5200	3300	"	6/5	19 54		

ome Temp.... ....

Transparency Conditions ... Clear ... .

ocus.....

ome Temp.... ....

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1140	1 49W	+24 20	jumpy 6	4.29	W	-30	-1 A/sec 2"/min 1010 volts	
			6	6.7	B9	"	4 " " CLOUDS	
						Feb. 24	MC GC MTW STW S SW ME	
							+54.2 -20.4 -6.9 -0.2 +32.9 +20.6 -1.9	

Date Jul. 25/26 1958 Observer L-H Julian Day 2436260.

⊙ 336 46 39.6 3617.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24176	R.W. MON.	06 29.3	08 04	I-12½	E-103A0	set .016	+3.0	19 23	20 57	4
24177	H.D. 64090	07 47.2	30 55	"	"	"	+2.9	21 04	22 52	4
24178	" 88371	10 06.3	24 15	"	"	"	+2.9	23 03	00 19	4
24179	"			"	"	.008		0023	0209	2
	Flame, at 6713									

ome Temp. 34°F Transparency Conditions Good

ocus

ome Temp.

Ending Time E.S.T.	ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 57	0 29W	08 51	0	8.9 11.5	A0	1-1-1	Set 2. Spect. Bin	
22 52	1 10W	30 44	0	8.94	G2II	22-2	" 2 Le H.V.	
	0015W	23 57	0	9.03	G0V	22-1	" 8 " " Slit at .008	
02	2 00W	"	0	"	"	2-2-2	" 2 " " 0200 Cloud.	
						8/6	" 8 " " 0230 F-JJ1	

1PH + 9?

Feb. 26	SC	S	NTW	STW	SW	NE	
	-20.7	+28.2	-18.8	-0.4	+22.3	-8.2	
Mar. 3	NC	SC	NTW	STW	S	SW	NE
	+2.1	-23.1	-33.1	-0.8	+31.9	+27.0	-0.4
" 7	+4.9	-23.4	+18.8	+0.05	+33.8	+29.6	+0.1

75

Date Fri Mar 7-8/58 Observer Hd - Dg Julian Day 2436270.

⊙ 346 48 07.0 3598.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24180	HD 35818	05 22.3	12 50	I-12	103a-O	008	+0.2	19 12	20 02	
24181	R W Mon BD 8°1402	6 29.3	+8 54	"	"	016	0.1	20 05	23 08	4
24182	HD 84219	9 38.5	+44 53	"	"	005	0.6	23 15	01 25	1
24183	HD 108076	12 19.9	+38 52	"	"	"	0.4	01 43	03 29	2
24184	HD 134113	15 3.0	+ 9 16	"	"	"	0.2	03 45	06 00	2

Dome Temp.....

Focus.....

Dome Temp. 19°F

Transparency Conditions clear

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2h 1m	W 119	12 57	0	7.7	A0	2-2-2	Set 2 KA 6x6.	fair
23 58	W 320	8 49	0	8.9	A0	1-1-1	" 4 Eel Bin Hol.	
1 35	W 227	+44 37	0	8.52	G3	2-2-2	" 3 HINS 306	
0 29	W 151	-38 31	0	8.59	G0V	2-2-2	Set 2 HV Se	
0 00	W 139	+9 01	0	8.84	F9V	2-2-2	" 8 " "	
						8/6	" 5 Focus T+T	

3 PH + 3

Date Sat-Sun Mar 8-9, 1958 Observer O Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
447-55	HD 44109	6 14.9	+7 45	52cm	3300	10	6/4	19 00	19 08
448-55	HD 44990	6 19.8	+7 08	↑		"	6/4	19 15	19 23
449-55	HD 44990	"	"	→		"	6/4	19 25	19 33
450-55	HD 44109	6 14.9	+7 45	↓		"	6/4	19 37	19 45
451-55	HD 44109	6 14.9	+7 45	→		"	6/4	19 47	19 55
452-55	HD 44990	6 19.8	+7 08	↓		"	6/4	20 01	20 10
453-55	HD 44990	6 19.8	+7 08	→		"	6/4	20 11	20 19
454-55	HD 44109	6 14.9	+7 45	↓		"	6/4	20 24	20 32
455-55	HD 57061	7 14.5	-24 47	HT-6		25	5/3	20 52	21 01
456-55	NGC 2362 #30	"	"	HT×2		"	6/5	21 21	21 31
457-55	HD 62509	7 39.2	+28 16	52cm	3300	10	4/5	21 47	22 06
458-55	HD 72779	8 29.6	+14 55	↑		"	6/5	22 27	22 44
459-55	HD 71917	8 26.8	-2 19	"		"	6/2-1	22 50	23 09
460-55	HD 76943	8 54.2	+42 11	"		"	5/4	23 15	23 32
461-55	HD 76534	HD 24.2	56 38	"			6/2	23 40	23 58

me Temp. +23° F Transparency Conditions Clear

cus.....

me Temp.....

Ending Time E.S.T.	ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 09		+7 43	3"	6.7	B9	30'	4A/sec 2"/min 1020 v 70	
11 23	0 13E	+7 03		Var	Var	"	" " TMon. 13 73	
17 32	0 03E	"	"	"	"	"		
1 -5	0 14W	+7 43	"	67	B9	"	Recentre Dec. Screw Motion 66	
17 55	0 25W	"		67	B9	"	66	
20 ;	0 34W	+7 03		Var	Var	"	77	
20 19	0 44W	"		"	"	"	-1-	
20 32	1 02W	+7 42		6.7	B9	"	62	
21 3		-24 54		4.39			1A/sec.	
21 11	1 02W	"		8.21		"		
22 .:	1 06W	+28 04		2.15	KOII	"	4A/sec 2"/m 1.25 81	
22 --	1 51W	+19 41		7.25			" Finder 3 87	
23 09	0 39W	-2 36		5.02	F6V			
23 32	0 22W	+41 56		4.43	F5V	"		
1 56	1 18W	+56 11		5.2	F2V		WIND MOVING TELESCOPE	

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Date March 29, cont. Observer — BK Julian Day 2436271

⊙ 347 48 05.5 3596.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24185	BD +29° 1903	09 24.6	+29 37	I-12	F103-a-O	wl .016	-4.0	00 22	01 42	
24186	BD +29° 2405	14 02.6	+29 45	"	"	"	-4.0	01 52	03 12	
"	From Tau of O.T.R					.008				

Time Temp.....

Focus.....

Time Temp.....

Transparency Conditions Clear at 2 o'clock

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	4 02 W	29 16	1	9 89	F5	1-1-1	132 2 KAFC [illegible]	fair
	1 55 W	29 26	0	10 00	F8	1-1-1	5 " " Cir Cloud forms S	fair
						8/6	8 Hazy, cloudy at 5:10	ct Vidal

274 +3

		mc	sc	MTW	sTW	s	sw	mE
Mar.	10	+7.8	-24.5	+32.2	+0m.4	+36.1	+34.5	+2.1
	12		-27.3	+28.6	+0m.4	+38.2	+33.0	-6.1
	17	-0.1	-26.6	+41.1	+0m.6	+40.0	+36.6	+1.9
	19	+2.1	-28.1	+41.9	+0m.7	+4.0	+36.6	-0.1
	21	+3.3	-28.7	+28.4	+0m.2	+10.8	+36.1	-1.2

81

Date Sat Sun M - 22-23/58 Observer O - DA Julian Day 2436285

⊙ 1 44 48.5 3571.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
462-56	HD 44109	6 14.9	+7 45	5200	3300	10	6/7	19 48	
463-56	HD 79469	9 09.2	+2 44	Hγ	4	10	5/6	20 57	21 25
464-56	HD 84870	9 43.1	+34 35	Hγ	4	10	6/7	21 32	21 58
465-56	HD 6 Leo	9 40.2	+24 14	5200	3300	10	5/5	22 04	~~22~~ 21
466-56	HD 37901 Leo	10 03.0	+12 27		"	10	5/1 4/5	22 39	22 58
467-56	"	"	"	Hγ	4	10	4/5	23 07	23 28
468-56	HD 91130	10 26.2	+32 54		"	10	6/5	23 36	23 59
24187	HD 111515	12 44.6	+1 45	I-12	E103Ao	.008	+2.4	00 25	00 25
24188	HD 134113	15 30	+9 16	"	"	"	+2.4	02 36	02 12

Dome Temp. +34°F

Focus

Dome Temp. +27°F

Transparency Conditions Clear Some Cirrus 82

Ending Time E.S.T.	Hr Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			1½"	6.7	B9	30"	4 A/sec. Spect. photometric cal.	
21 25	1 04E	+2 28		4.0	A0	"	1 A/sec not steady	
21 59	0 06E	+34 17		6.8	A3		" Trans clouds too - ic.	
22 21	0 20W	+23 56		3 5	G0 II		4A/sec.	
22 55	0 34W	+12 09		1.21	B7 V		4A/sec	
23 29	1 05W	"	3'	"	"		1A/sec	
23 59	1 12W	+32 35	2	6.0	A5	"	"	
1 [illegible]	121W	+1 24	0	8.76	G8 II	2-2-2	Set 2 HV 5c	fine
1 12	5 [illegible]	+1 26	0	8.84	F9 V	2-2-2	8 "	fine
						8/6	5 Focus Set 3 7H +0	c ☒ violet
							Cross hair light of main system out of order.	

Date Sun-Mon Mar 23-24/58 Observer O — Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
469-57	HD 44109	6 14.9	+7 145	5200 - 3300		10	6/7-6	19 35	19 38
470-57	HD 44990	6 19.8	+7 08	←		"	6/7	19 42	19 50
471-57	HD 44990	"	"	→		"	6/7	19 51	19 59
472-57	HD 44109	6 14.9	+7 45	←		"	6/6	20 10	20 18
473-57	HD 44109	"	"	5200 - 3300		"	6/6	20 19	20 27
474-57	HD 44990	6 19.8	+7 08	←			6/7	20 33	20 41
475-57	HD 44990	"	"	→			6/7	20 42	20 51
476-57	HD 44109	6 14.9	+7 45	←			6/6	20 55	21 03
477-57	HD 74280	8 38.0	+3 46	5200 - 3300		10	6/2	21 23	21 40
478-57	HD 76644	8 52.4	+48 26	"		10	5/4	21 46	22 04
479-57	HD 87901	10 03.0	+12 27	"		10	5/1	22 11	22 30
480-57	HD 74280	8 38.0	+3 46	"		10	6/1	22 35	22 53
481-57	HD 102647	11 44.0	+15 08	"		10	5/2	22 57	23 17
482-57	HD 74280	8 38.0	+3 46	"		10	6/1	23 22	23 40
483-57	HD 74280	"	"	"		10	6/2	23 42	23 59

ome Temp.....

ocus.....

ome Temp.....

Transparency Conditions ..... Clear .....

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 37	1 06W	+7 42	4"	6.7	B9	30'	4/Nice 2"/Poor	
19 50	1 13W		3	Var	Var	"		
19 59	1 22W		"	"	"	"		
20 16	1 46W		"	6.7	B9	"		
20 27			"	6.7	B9	"		
20 4	2 05W		"	Var	Var	"		
20 51	2 14W		2	"	"	"		
21 00	2 31W	+7 42	2	6.7	B9	"		
21 40	2 46W		3	4.11	B3V	"		
22 0	0 54W	+48 11	2	3.30	A7V	"		
22 31	0 11W	+12 09	2	1.21	B7V	"		
22 53	0 58W	+3 32	3	4.11	B3V	"		
23 17	0 43E		"	2.21	A3V	"		
23 40	2 46W		"	4.11	B3V	"		
23 59	3 05W		"	"	"			

OVER

85

Date Mar. 23/24/31 Cont'd Observer -H- Julian Day 2436286

⊙ 2 44 16.7 3569.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24189	HD 114606	13 06.4	+10 09	I-12½	E103a-D	.002	+3.0	00 34	0 3 18
24190	" 1562 ~~02~~	17 14.5	-07 55	"	"	"	+2.9	03 31	0 5 19
	Power Cont		STB						

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions Good.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0156W	+1049	0	9.35	G_3V	2-2-2	Set. 2 SeHV.	Fuzzy
	0011E	-0759	0	8.65	G_2V	2-2-2	" 8 "	good
						8/6	" 5	c & violet
							2 P.Hj.	
						Mar. 24	mc sc mtw stw s sw me	
							+7.0 -30.6 +0.7 +0.2 +20.6 +31.3 -1.8	
							+9.3 -31.2 -22.9 -0.1 -38.4 +30.4 -6.7	

87

Date Mar 26-7 Wed-Thu Observer Sc – Hr Julian Day 2436289

⊙ 5 42 34.8 3562.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24191	HD 88725	10^h 8.9	+3 39	I-12	E103aO	set 108	+6.5C	21 30	2B.40
24192	" 114606	13 06.4	+10 09	"	"	"	8.5	00 38	04 38
	Tau Tod	37	13						

me Temp. +48 F Transparency Conditions Good

ocus

me Temp. +33

WIA group shots NGC 2392, Mon

0120 Just heard Explorer II courtesy of Gus.

Ending Time E.S.T.	ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
B 40	1h 05W	+3° 23	0	8.4	G1V	2-2-2	Sc HV set 2	fair
C +38	323W		0	9.53	G3V	2-2-2	Sc Hv. " 8 This one very hard to find Cant find HD118742	fair
						8/6	" 5	OK
							(P.H. +11	
							Guide mt. w/ light Temp Control won't stay still enough to find ph.	
							mc sc mtw stw s sw mE	
						March 28	+1.8 -31.5 -17.7 -8.5 +51.5 +31.7 -8.5	

89

Date Mar 30/31/58 Observer — Hr Julian Day 2436 293.

⊙ 9 39 49.4 3552.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. +7.9	Starting Time E.S.T.	Ending Time E.S.T.
24193	HD137826	15 23.1	66 54	I-12½	E103a-O	set. .008	7.4	0124	0454
	7 hour Test		07B.						

Dome Temp. +39°

Focus 12.90

Dome Temp.

Transparency Conditions Good.

90

Galvanometer in W. Bridge not working properly
Switched off at 0430

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0457	0145W	6641	0	9.41	G6V	2-2-2	Set 2 Se Hv	fair
						8/6	" 8	OK.

2 P.H. +8

	mc	SC	MTW	STW	S	SW	ME
				m			
Mar. 31	+4.3	-32.3	-2.9	-0.1	-48.0	+35.4	-1.2

a1

Date Mon Tues Mar. 31 April 1958 **Observer** MR – HS **Julian Day** 2436294.

⊙ 10 39 02.2 3550.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
484-58	α Gem A.	07h 32m.0	+31° 59′	H/B	HS	20	5/1-4½	21:01	
485-58	β UMa	10 57.4	+56 36	HS		"	4/6	22:02	
486-58	ι UMa	8 56.5	+48 12	HS		"	5/3	22.20	
487-58	δ Leo	11 12.0	+20 45	HS		"	5/2	22:47	
488-58	β Leo	11 47.0	+14 48	HS		"	5/1	23:07	
489-58	γ UMa	11 51.7	+53 55	HS		"	5/2	23:16	
490-58	δ UMa	12 13.5	+57 15	HS		"	5/3	23 40	
491-58	η UMa	13 46.0	+49 31	HS	X	"	4/5	23 58	
	"							00 09	
	"							00 16	
2-1194	HD 114606	13 06.7	+10 07	I-12½	E1030-0	Set: .028	6.0 6.3	0046	0446
	Zero	7.1	07.3						

Time Temp.....

Focus.....

Time Temp.....

Transparency Conditions hazy; possibly improving

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		+31 59		1.97	A1V	30"	1 A/sec, 2"/min, slit 20. A 4960–4760 4540–4360	
		—		2.34	A1V	"	" " " not in b.l.?	cleaned slide and piston, new chart
		+48 12		3.31	A7V	"	" " " D 4510–4250	
		+20 45		2.70	A4V	"	" " " D 4589–4210	
		+14 48		2.23	A3V	"	" " " D 4510–4210	
		−33 55		2.44	A0V	"	" " " D 4510–4260	
		+57 15		3.37	A3V	"	" " " nicl 4500–4230	
		+49 31		1.67	B3V	"	" " " D 4521–4240	
							4521–4204	
							4204–4521	
	3 56 W	+09 50	0	1.35	G3V	2-2-2 R/6	Set 2 SeHv. " 8 1 PH. + 2	good cleared slightly

93

Date Tues-Wed April 1-2, 1958 Observer O-Hr Julian Day 2436.295.

⊙ 11 38 12.7 3548.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
492-59	HD44109	6 14.9	+7 45	5200	3300	10	6/6	19 35	19 43
493-59	HD44990	6 19.5	+7 08	←	"	"	6/7	19 47	19 55
494-59	HD44990	"	"	→			6/7	19 57	20 05
495 59	HD44109	6 149	+7 45	←			6/7	20 09	20 17
496 59	SKY			→		"	6/7	20 18	20 26
497-59	NGC 2392	1950 7 26.2	+21 02	Coude 2500	5214	40	6/7	20 34	20 47
498 59	"	"	"	5200	4350	10	6/7	20 48	20 57
499-59	ε Leo	9 40.2	+24 14	5200 ↔	3300	10	6/1	21 03	21 21
500-59	HD76644	8 52.4	+48 26			10	5/4	21 26	21 44
501-59	HD84870	9 43.1	+34 35	Hr	4	20	6/6	21 53	22 22
502-59	HD87901	10 03.0	+12 27			20	4/4	22 27	22 51
503-59	HD 91130	10 26.2	+32 54			20	6/4	22 56	23 22
504-59	HD 111469	12 41.4	+28 06			20	6/3	23 29	23 55
2-4195	" 159226	17 23.0	31 10	1-11½	Eres 0	30?	+1.5	23 31	02 50
2-4196	" 160693	17 36.2	27 16	"	"	"	2.5	02 57	03 01

Dome Temp. +48°F Transparency Conditions Clear Some haze 94

Focus.....

Dome Temp.....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 [illegible]		+7 43	2	6.7	B9	30	4+/min 2"/min 900 m.	
19 55	54W	+7 04		Var	Var	"	" " "	
20 05	2 03 W	"	"	"	"	"		
20 17	2 21W	+7 41	"	6.7	B9	"	" "	
20 24								
20 47		+20 59		Planetary Nebulae		"	" "	
20 57		"			"			
21 24	0 00	+23 57	3	3.5	G0 II	"	" "	
21 [illegible]	0 01W	+48 10	"	3 30	A7 V	"	Standard Star	
22 [illegible]	0 52W	+34 16	3	6.8	A3	"	IA line + SKY	
22 [illegible]		+12 09	"	1.5	B6	"	"	
23 [illegible]	15 W	+32 35	"	6.0	A5	"	"	
23 [illegible]	0 30 E	+27 44	"	6.0	A0	"	"	
23 [illegible]	2 12 E	+31 13	0	4.07	G1 V	2-2-2	K-t + Sc H,	strong
[illegible]	1 C 14 E	3[illegible] 12	0	[illegible]	G. V	2-2-2	" " "	fair G-g red slightly -

	MC	SC	MTW	STW	S	SW	NE
Apr. 2	+6.0	-31.8	+3.2	-0m.1	+45.9	+36.8	-4.9

qE

Date Wed April 2-3/58 Observer L-H Julian Day 2436296.

⊙ 12 37 21.1 3546.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24197	HD 74462	08 39.1	67 49	I-12½	E103Ao	Set .008	10.6	19 46	22 30	4
24198	BD. 47° 1806	10 38.1	46 49	"	"	"	10.5	22 36	02 46	4
24199	HD 159482	17 29.9	+06 04	"	"	"	10.5	03 01	05 05	
	Focus Test		07B							

Dome Temp. +45°F Transparency Conditions Good. 91

Focus.....

Dome Temp. +39°

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
22 30	2 11 W	67 35	0-1	9.71	G5 IV	2-2-2	Let 2	O - H.V.	fair
70	5 4 30 W	46 28	1	9.74	G1 IV	2-2-2	" 8	O - H.V.	fair
25 C	0 31 E	+06 01	0	8.75	G. V	2-2-2	" 2	Se H.V.	good.
						8/6	" 8		CG red slightly
								2 P.H. +4	
							MTW	STW SW ME	
						April 3	+29.1	+0m4 +27.8 -7.3	

Date Thu–Fri April ~~3~~ 3-4 Observer Sc — Hr Julian Day 2436297.

⊙ 13 36 27.3 3544.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24200	HD 101674	11 36.9	+44°42	I-12	E103a0	set .016	11:0	23 23	00 39	
24201	" 156802	17 14.5	−07 55	"	"	008	"	01 00	03 20	
	7 on 7 of		OFB							

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions ..... 1 .....

Sat Apr 5. Cloudy. 200 visitors 14h-15h
showed Uranus twice, lectured at 9.00 p.m.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2039	12.9 W	+48 24	0	9.12	F5	1-1-1	KAFS	fine
0225	12.7 E	−08 00	0	8.65	G2V	2-2-2	Lo + 2 SeHv	too weak. 24 cloud slightly
						8/6	" 8 0330 Sk, becoming [illegible]	
							I.P.H. +3	
							mE sc mTw sTw S sw mE	
						April 7	+10.6 −33.3 +30.8 +0.m5 +35.3 +40.3 −7.1	

99

Date Tues Apr 8-9/58 Observer Hd - Hs Julian Day 2436302.

⊙ 18 31 29.2 3 33 7.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24202	HD 83697	9 35.2	44 39	I-12	E10300	016	0.0	20 34	22 44½	
24203	HD 92124	10 33.1	45 22	"	"	"	0.1	22 45	0 134	
24204	HD 158226	17 23.0	31 10	"	"	008	0.0	0 2 17	0 4 47	

Dome Temp.....

Focus.....

Dome Temp. +24°F

Transparency Conditions Good. | Mon Apr 7 - clouded out at moment starting very bright final all night but lay remaining plane calls. Hr sent MR Fog at 0130 AM. Hr 100

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 44½	W 154	44 25	D	9.72	G8	1-1-1	Set2 KAFS Prog: Faint	fair
0137	348W	45 03	00	9.76	K5	1-1-1	" 8 " " " " "	good
0211	0013W	31 06	0	9.01	G IV	2-2-2	" 2 Sc Hv. Previous Plate (24195) is wrong star I think.	strong
						8/6	" 8	

2 P.H. Plates Needed

	mc	sc	mTw	sTw	S	Sw	ME
April 9	+12.6	-33.3	-25.9	-0.1 m	+39.9	+40.9	-4.8

Date Wed-Thurs April 9-10 1935 Observer O-Hr Julian Day 2426 303

⊙ 19 20 24.2 35 33.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
505-60	HD44109	6 14.9	+7 45	52"	3300	10	6/7	19 49	19 57
506-60	HD44990	6 19.8	+7 08	←		"	6/7	20 00	20 08
507-60	HD44990	6 19.8	+7 08	→		"	6/7	20 09	20 17
508-60	HD44109	6 14.9	+7 45	←		"	6/7	20 20	20 28
509-60	HD87901	10 03.0	+12 27	52"	3300	"	4/6 5/1	20 33	20 53
510-60	HD 76644	8 52.4	+48 26		"	"	5/4	21 04	21 22
511-60	HD 102647	11 44.0	+15 08		"	"	5/3	21 29	21 47
512-60	HD 102870	11 45.5	+2 20		"		6/2	21 51	22 09
513-60	HD87901	10 03.0	+12 27		"	"	5/1	22 15	22 32
514-60	HD 103287	11 48.6	+54 15		"	"	5/3	22 38	22 55
515-60	HD87901	10 03.0	+12 27		"	"	5/1	23 00	23 18
516-60	α Vir.	13 19.9	-10 38		"	"	5/1,4/5	23 25	23 42
517-60	α Vir	13 19.9	-10 38	52"	4000	"	4/5	23 13	23 48
518-60	HD87901	10 03.0	+12 27		"	"	5/1	23 54	00 11
2425	BD +15° 2134	13 46.1	14 52	I-D5	E130-0	C16	+2.0	00 43	01 01
2426	HD 130918	14 46.0	15 18	"	"	"	"	01 27	01 41

Focus Test

Dome Temp. +37° F Transparency Conditions Clear

Dome Temp.

Ending Time E.S.T.	Hr Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 57	2 32 W	+7 41	5"	6.7	B9	30	Apex 2"/min	
20 09	2 39 W	+7 03	"	Var	Var	"	" "	
20 17	2 48 W	"	"	"	"	"	" "	
20 32	3 03 W	+7 40	"	6.7	B9	30	" "	
20 53	0 20 E	+12 08	"	1.21	B7V	"	" " Previous 5/3 and 5/1	
21 22	1 19 W	+42 08	"	3.30	A7V	"	" "	
21 47	0 06 E	+14 45	"	2.21	A3V	"		
22 14	0 46 E	+1 58	"	4.17	F8V	"	" "	
22 32	1 23 W	+12 09	"	1.21	B7V	"	" "	
22 57	0 01 E	+53 57	"	2.44	A0V	"		
23 15	1 01 W	+12 07	"	1.21	B7V	"	"	
23 42	0 47 E	-10 58	"	0.67	B1V	"	"	
23 59		"	"	"	"	"	"	
30	3 00 W	+12 02		1.21	B7V	"	"	
	2 24 W	44 35	0	9.10	F7	1-1-1	Set 2 KAFS Field Checks	fair
	1 56 W	+2 53	0	9.17	G5	1-2 4/3	" " " "	fair

MC SC MTW STW S SW

April 11 +14.1 -33.1 -22.8 +0.4 +38.5 +44.1

ME +0.9

I.P.H. +12

Date Sat. April 12-13/58 Observer L Julian Day 2436306

⊙ 22 26 58.8 3528.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle 2nd
24207	H.D. 113995	13 02.4	29 14	I-12½	E-103a	.008	18.2	23 43	02 23	+ 24h
24208	" 162756	17 47.6	-07 53	"	"	"	+8.2	02 40	04 40	0 04E

ome Temp. 44°F

ocus

ome Temp. 40°F

Transparency Conditions

Approx 200 visitors. Shared library. N. L

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0223	2 24W	28 54	0	9.76	K5	2-2-2	~~Ast~~ 2. K.A.F.S.	v weak
04	0 04E	-07 55	0	8.26	G0V	2-2-2	" 8 Se HV 2 PHo + 10	fair

105

Date Sun-Mon 1958 April 13/14 Observer BK - Julian Day 2436307

⊙ 23 25 46.9 3526.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24209	[illegible]	09 36 6	+44 19	[illegible]	[illegible]	sel C16	12°0	19 48	21 48	
24210	[illegible]	10 24 1	+30 01	"	"	"	"	21 52	23 12	

ome Temp.... 55°

ocus..... 1490.....

ome Temp.....

Transparency Conditions Good; some cloud in NW 106

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 17 W	47 01	1	985	F9	1-1-1	cal 2 KAFS, H.A. 3m9	fair
1 54 W	30 43	1	962	F6	1-1-1	8 " 529 23.10 Dark Gray Sky	fair
						1 PM +10	
						mc sc mTW sTW S SW mE	
					Apr. 14	+16.0 -28.7 -15.8 +0.5 +33.6 +47.0 -7.3	

Ending Time E.S.T.

7

526.3

107

Date Mon Tues April 14/15 1958 Observer DDL – HK Julian Day 2436308

⊙ 24 24 33.2 3524.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
519-61	ι UMa	$8^h 56.5^m$	+48° 12′	HT ×2		10	5/5	20:28	
520-61	α Leo	10 06.1	+12 11	"		"	4/6	21:07	
	"	"	"	"		20	4/4	21:20	
521-61	η Leo	10 05.2	+16 58	"		"	5/4	21:35	
522-61	ρ Leo	10 30.6	+9 31	"		"	"	21:50	
523-61	β Leo	11 46.9	+14 49	"		"	4/6	22:07	
524-61	ρ UMa	10 59.4	+56 36	"		"	"	22:25	
525-61	δ UMa	11 57.5	+53 57	"		"	"	22:40	
526-61	K Dra	12 31.8	+70 00	HT ×2 +4		"	5/4	22:58	
527-61	η UMa	13 46.0	+49 31	"	"	"	4/5	23:18	
528-61	α Vir	13 23.1	−10 57	"			4/4	23:53	
529-61	HD 119850	13 [illegible]	+29 57	I-12	E103a-O	0.2 0.06	12.8	01 05	03 35
530-61	HD 135962	15 12.9	+59 49	"	"	"	"	03 44	05 04
	Focus Test	5-7 P.							

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions excellent

Bright aurora at 22h - after midnight

Dr Ross & family

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		+48 12	4	3.81	A7 V	30"	4520 - 4230 D	1A/S, 2"/m, slit 10
		+12 12	"	1.21	B7 V	"	4540 - 4240 D	"
		"	"	"	"	"	4520 - 4216 D	slit 20
		+16 59	"	3.6	A0 Ib	"	4520 - 4220 D	"
		+9 30	"	3.71	B1 Ib	"	4520 - 4232 D	"
		+14 50	"	2.21	A3 V	"	4520 - 4166 D	"
		+56 35	"	2.37	A1 V	"	4520 - 4210 hol.	"
		+53 54	"	2.43	A0 V	"	4520 - 4210 D	"
		+70 00	"	3.9	B5	"	4522 - 4213 B	" (+4 tune (4300-4770))
		+49 27	"	1.67	B3 V	"	4520 - 4220 B	" (4280 - 4430)
		-10 54	"	0.67	B1 V	"	4520 - 4220 B	" (4282 - 4430)
	2 44	+2 40	0-2	10.66	sp8	1-1-1	at 2 KAFS,	fine
	3 [illegible]	54 33	1	9.69	G2	1-1-1	5 125	fine
						4/3	2	
							150 + 8	

109

Date Tues April 15-16/58 Observer L - B & L Julian Day 2436309

⊙ 25 23 17.7 3522.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24213	BD+45 1753	09 36.7	45 30	I-12½	E 103A0	Set 816	+17.2	20 05	22 25
24214	" +44 2112	11 33.2	44 39	"	"	"	+17.0	22 30	01 30
24215	HD 131447	14 48 6	+44 39	"	"	"	16 8	01 37	03 27
24216	HD 135721	15 11 5	+6 m 19	"	"	"	"	03 33	4 53
	Focus Lab	0 T 13.							

Dome Temp. 62°F Transparency Conditions Fair 110

Focus .....

Dome Temp. 50° Aurora from 1 o'clock on

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 25	2 01W	45 15	1	9.87	B8	1-1-1	2 KAFS.	fair
30	3 10W	44 18	1	9.65	F7	1-1-1	" 8 KAFS.	fair
	1 55W	44 24	1	9.88	G8	1-1-1	2 " Hius 353	fair
	3 00W	60 06	1	9.60	A8	1-1-1	5 " 134	fair
						4/3	8	

Dirt on tube slit

4 7 11 +4

	MC	SC	MTW	STW	S	SW	ME
April 16	+19.1	-33.8	-22.8	+0.3	+32.2	+11.4	-0.9

Date Wed April 16-17/48 Observer L Julian Day 2436310

⊙ 26 22 00.4 35 20.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24217	HD. 131 381 Focus Test	14 48.2	45 35	I-12½ O	E 103a-O TB.	set .016	+18.2	00 44	02 46

Dome Temp. 56°F Transparency Conditions Hazy

Focus

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0246	1 17W	45 20	0	9.68	F8	1-1-1 4/3	Set 2 K.A.F.S. clouds from Fog and Grinding 02.25 star gone at 0246 3 PHo + 4	OK.

Date Thurs Apr 17-18/58 Observer HH - RE Julian Day 2436311

⊙ 27 20 41.3 358.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24218	BD +44° 1904	9 41.0	44 42	I-12	E103a-o	008	+20.2	19 56	21 56	2
24219	HD 111851	12 47.1	44 33	"	"	"	20.2	22 04	00 04	2

Dome Temp. 68F — Transparency Conditions hazy — 114

Focus .....

Dome Temp. .....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 56 2	W 137	44 27	2	9.39	A5	2-2-2	Ref 2 KAFS	Iweak
2	W 040	44 16	2	9.27	F6	2-2-2	" 8 " Cloudy - closed	Iweak
							2 PH 14	
							MTW ME	
						April 18	-39.2 -3.7	

115

Date Fri Sat April 18-19, 1958 Observer O Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
529-62	HD 52497	6 56.3	+24 21	5200	-3300	10	6/5	19 55	20 13
530-62	HD 87901	10 03.0 1950	+12 27		"	10	5/1	20 16	20 34
531-62	NGC 2392	7 26.2 1950	+21 02 1950		"	35	6/6	20 44	21 01
532-62	"	"	"	5200	-4770	35	6/6	21 02	21 16
533-62	NGC 4374	12 22.5	+13 09	5200	-	35	6/7	21 27	21 34

Dome Temp. +59° F

Focus

Dome Temp.

Transparency Conditions Clouds in W and N. 116
Se said 350 later - No
Saturday, April 19: (250) visitors. Cloudy.
Lecture + Demonstration of telescope
Se, D, Bk.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 13	2 41 W	+24 17	8"	5.6	G5II	30	4A/rec 2"/mm	
20 34	0 04 E	+12 10	11	1.21	B7V	"	S1 Star	
21 01	3 02 W	+21 00	"	8	"	"		
21 16	3 19 W	"	"	"	"		1A/rec 2"/mm	
21 34				10			4A/rec Elliptical Galaxy. Clouds	

	MC	SC	MTW	STW	S	SW	ME
April 21	+22.5	-33.1	+9.3	-0.m2	+26.1	+43.9	+1.1
23	+24.3	-33.0	-26.9	-0.m5	+23.2	+42.7	-4.2
25	+1.0	-32.2	-49.8	-1.m0	+20.6	+44.7	-3.2

Saturday, April 26 — 250 visitors. Showed Uranus & xCVn
MR - RK

	MTW	ME
Apr. 25	-26.9	-0.2

Date Tues Apr 29-30/58 Observer HL - HS Julian Day 2436323

⊙ 39 02 14.8 3494.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24220	HD82069	9 24.6	30 00.	I-12	E103a-O	0.16	+10.0	20 00	22 00
24221	HD 101674	11 36.9	44 42	"	"	"	10.0	22 12	23 42
24222	HD131781	14 48.2	45 35	"	"	"	+10.0	23 47	01 57
24223	HD 172403	18 34.9	-09 14	"	"	"	"	02 21	04 10
	7 00 - 1st		07B						

Time Temp.....

Focus.....

Time Temp.....

Transparency Conditions .....

Ending Time E.S.T.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12 5	W 2 44	29 45	0	9.45	F9	1-1-1	KAFS Sct 2 Sky very milky	fine
2 -	" 215	44 24	0	9.12	F5-	1-1-1	" " 8	good
( )	120 W	+45 20	0	T63	F8	1-1-1	" " 2	fine
( )	093	-09 11	0	9.23	B9 IIb	1-1-1	OB " 2	towards end slightly
						4/3	" 8	

1 P.H. +2

Date Wed-Thurs - April 30 - May 1 Observer O - Hv Julian Day 2436324

⊙ 40 00 29.1 3492.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
				⟷					
534 - 63	HD 87901	10 03.0	+12 27	5200	3300	10	5/1	19 59	20 16
535 - 63	HD 76644	8 52.4	+48 26		"	10	5/4	20 22	20 39
536 - 63	HD 103287	11 48.6	+54 15		"	10	5/3	20 44	21 02
537 - 63	HD 102647	11 44.0	+15 08		"	10	5/3	21 09	21 26
538 - 63	HD 87901	10 03.0	+12 27		"	10	5/1	21 30	21 47
539 - 63	HD 139006	15 30.5	+27 03		"	10	5/3	21 56	22 14
540 - 63	HD 87901	10 03.0	+12 27		"	10	5/1	22 20	22 39
541 - 63	HD 139006	15 30.5	+27 03		"	"	5/3	22 44	23 02
542 - 63	HD 87901	10 03.0	+12 27		"	"	5/1	23 08	23 25
543 - 63	HD 130109	14 41.2	+2 19	"		"	6/1	23 31	23 49
544 - 63	HD 139006	15 30 5	+27 03		"	"	5/3	23 54	00 12
2412.211	BD +29° 2755	15 57.6	29 42	IIa-F	IIIa-E 1030	0.16	1	00 [illegible]	
	"	"	"	"	"	"	8	0121	0411
	7+ 87B								

Time Temp. 150°F

Transparency Conditions Clear

Focus

Time Temp. 42°F

Sat May 3, 1958 - 160 visitors
Cloudy.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 [illegible]	D 26 W	+12 11	4"	1.21	B7V	30"	4A/sec 2"/min 900 v	
20 [illegible]	59 W	+48 11	"	330	A7V	"	" "	
21 [illegible]	D 34 E	+53 57	"	2.44	A0V	"	" "	
21 [illegible]	D 04 E	+14 47	"	2.21	A3V	"	" "	
21 [illegible]	C 57 W	+12 09	"	1.21	B7V	"	" "	
22 [illegible]	B 02 E	+26 51	"	2.21	A0V	"	" "	
22 [illegible]	2 42 W	+12 09	"	1.21	B7V	"	" "	
23 [illegible]	2 14 E	+26 51	"	2.21	A0V	"	" "	
23 25	B 36 W	+12 09	"	1.20	B7V	"	" "	
23 [illegible]	D 40 E	+ 2 02	"	374	A0V	"	" "	
00 12	04 E	+26 51	"	2.21	A0V	"	" "	
				7.71	F5	1	Set 2 KAFS T. [illegible] w/ [illegible]	break
[illegible]	30 W	+29 41	"	"	"	1-1-1	" " "	
						4/3	" 5	
							2 PH found.	
							Plate Mislaid	

	mc	sc	MTW	SW	S
May 2	+7.7	-30.7	-37.9	+1.0	+12.7
				SW	ME
			OK	+48.7	-4.3

121

Fri – Sat

Date May 9 – 10 Observer Se – Dy Julian Day 2436333.

⊙ 48 43 20.2 3478.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24225	HD 111515	12h 44.6	+1° 45	I-12	F 103a-0	Set 108	+7.5°	21h 00	23h 06
24226	HD 137826	15 23.1	+66° 54	〃	〃	〃	〃	23 : 20	02 54

me Temp. +35°F

Transparency Conditions Clear

us

me Temp. +33°F

Ending Time E.S.T.	ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
23h 44m	11m W	+1° 25	O	8.76	G8 V	2-2-2	Set 2	Se HV	l weak
1 54	24m W	+66° 42	O	9.41	G6 V	2-2-2	Set 8	Se HV	fair
						9/6	Set 5	Focus fast Clouds 1 P.M. 1 P.M.	OK.

123

Date Sept Morg 11-12 1958 Observer RK - O Julian Day 2436335.

⊙ 50 39 15.8 3475.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24227	HD 114104	13 038	-5 46	I-25	E103a-O	.001"	5.8	20 34	21 3-
24228	ADS 9589	15 56.9	+11 42	"	"	"	14.0	21 40	00 20
545-64	HD 182487	19 19.8	+42 46	5200 →	3300	20	6/1 G	00 44	00 53
546-64	HD 182989 (RR Lyr)	19 22.3	+42 36	←		20	6/2 H	00 58	01 06
547-64	HD 182989	19 22.3	+42 36	→		"	6/3 H	01 08	01 16
548-64	HD 182487	19 19.8	+42 46	←		"	6/1 H	01 21	01 29
549-64	HD 182487	"	"	5200 →	3300	"	6/1 H	01 30	01 39
550-64	HD 182989 (RR Lyr)	19 22.3	+42 36	←		"	6/3 H	01 46	01 55
551-64	HD 182989	"	"	→		"	6/3 H	01 57	02 05
552-64	HD 182487	19 19.8	+42 46	←		"	6/1 H	02 10	02 17
553-64	HD 182487	"	"	5200 →	3300	"	6/1 H	02 20	02 29
554-64	HD 182989 (RR Lyr)	19 22.3	+42 36	←		"	6/3 H	02 35	02 43
555-64	HD 182989	"	"	→		"	6/3 H	02 45	02 53

Dome Temp. 54°

Focus 15 32

Dome Temp.

Transparency Conditions Good

Hd-Rok Sat May 10 220 minutes
Cloudy 9-10, thinned & declined
Clear 10-11 thinned 4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							Changed to I-25 I-12 was tilt, focus 12.89 tilt 20.25	
							set I-25 tilt 23.15, focus 15.25	
	0 22E	5 25	0	7.47	G5V	4-4-4	Focus 15.50, suggested focus 15.30 5 4 5 Se-HV I-3, 3962-4140	weak
	0 42E	11 32	8	5.4	K2	4-4-4	5 Sk-V8 Focus test, 4154-4425 (011)	weak
00 22	3 21E	+42 54	7"	7.02	A0	30	? HH + ?	
01 06	3 17E	+42 42	"	Var	Var	"	4A/sec 2"/min. 900 v	
01 16	3 02E	"	"	"	"	"		
01 28	2 52E			7.02	A0	"		
01 38	2 42E			7.02	A0	"		
01 55	2 29E	+42 45	"	Var	Var	"		
02 07		"	"	"	"	"		
02 18	2 02E	+42 55	"	7.02	A0	"		
02 27		"	"	"	"	"		
02 43	1 40E	+42 45	"	Var	Var	"		
02 53		"	"	"	"	"		

[contd]

Date Sun-Mon May 11-12, 1958 Observer O Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	H.
556-64	HD 182487	19 19.8	+42 46	5200 ←	3300	20	6/1 H	02 58	03 07	
557-64	HD 182487	"	"	→		"	6/1 H	03 08	03 16	
558-64	HD 182989	19 22.3	+42 36	←		"	6/3 H	03 23	03 31	
559-64	HD 182989	"	"	→		"	6/3 H	03 32	03 40	
560-64	HD 182487	19 19.8	+42 46	←		"	6/1 H	03 45	03 53	

Dome Temp.... .....

Focus.....

Dome Temp.... .....

Transparency Conditions Clear

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
03 [illegible]	1 14E	+42 56	10"	7.02	A0	30	4A/rec 2"/mm	
03 [illegible]	1 04E	"	"	"	"	"		
03 31	0 52E	+42 45	"	Var	Var	"		
03 46	[illegible]	[illegible] 45	"	"	"	"		
03 53	0 27E	+42 56	"	7.02	A0	"		

		SC	MTW	STW	S	SW	ME
May	13	-30.9	-26.2	+0.4	+18.0	-1.0	-2.3
ME							
	+18.8						
May	15	-31.9	-4.8	-0.3	+14.7	+1.5	+6.8
	16		+3.9	-0.2		+26.7	+7.3

Date Fri-Sat, May 16, 17, 1958 Observer Ik – O, Mai Julian Day 2436340

⊙ 55 28 42.0 3469.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
5459	Mrk 990	15 52	+11 42	I 25	E 103a-O	20	22°	22 00	00 20		
	Tonantzintla	7.2									
561-65	HD 121370	13 49.9	+18 54	5200	↔ 3300	10	5/4	00 46	01 05		32 W
562-65	HD 131156	14 46.8	+19 31		〃	10	6/3	01 12	01 30		01 W
563-65	HD 157214	17 16.9	+32 36		〃	10	6/4	01 35	01 55		34 E
564-65	HD 172167	18 33.6	+38 11		〃	10	4/3-2	02 04	02 23		32 E
565-65	HD 188350	19 49.6	+00 01	5200	→ 3300	10	6/4	02 29	02 37		55 E
566-65	HD 187929 mAg°	19 47.4	+00 44		←	10	6/3	02 41	02 49		41 E
567-65	HD 187929	〃	〃		→	10	6/3	02 50	02 58		
568-65	HD 188350	19 49.6	+00 01		←	10	6/4	03 02	03 10		22 E
569-65	HD 188350	19 49.6	+00 01	5200	→ 3300	10	6/4	03 12	03 20		3 E
570-65	HD 187929 mAg°	19 47.4	+00 44		←	10	6/3	03 24	03 33		37 E
571-65	HD 187929	〃	〃		→	10	6/3	03 33	03 41		49 E
572-65	HD 188350	19 49.6	+00 01		←	10	6/4	03 44	03 52		40 E

Dome Temp. 68

Focus 15.5

Dome Temp.

Transparency Conditions Variable, fair · 128

May 15, Primary Mirror Aluminized

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	6 11 E	4 32	0	8"	K2	4-4-0	set 2 (42-43) 4604 5138 at chop	weak.
						15/10	7 ... DOUBLE ... ctr/dist slightly	
01 05	2 32 W	+18 36	5"	329	G0 IV	30"	4A/sec 2"/min.	
01 30	2 01 W	+19 15	"	5.28	G8 V	"	" "	
01 55	0 04 E	+32 32	"	6.01	G0 V	"	" "	
02 23	0 52 E	+38 44	"	0.03	A0 V	"	" "	
02 37	1 55 E	+00 09	"	5.57	A0	"	" "	
02 49	2 41 E	+00 54	"	Var	Var	"	" "	
02 57		"	"	"	"	"	" "	
03 10	1 22 E	+00 09	"	5.57	A0	"	" "	
03 20	0 13 E	"	"	"	"	"	" "	
03 32	0 57 E	+00 54	"	Var	Var	"	" "	
03 41	0 49 E	"	"	"	"	"	" "	
03 52	0 40 E	+00 11	"	5.57	A0	"	" "	

129

Date ...Sept - Sept 1952 May 17-18 Observer N - DQ Julian Day 2436241

DQ

⊙ 56 26 31.3 3467.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
24230	HD 130952	14^h 45.8	−1 53	T-25	F103a-0	wt 0.008	24° C	$23^h 31^m$	23 49	2	1U
24231	131111	14 46.6	+37 41	"	"	"	"	23 55	00 21	2	51

Dome Temp. 63°F

Focus 15.55

Dome Temp. ....

Transparency Conditions lazy ... seeing poor - 130

N, Dg showers ESE, to ~ 200 meters

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9:34	2[illegible]W	-2 08	0	5.93	G8 III-IV	4-4-4	Set 2 0 HV	Focus probably bad. See next page. Hd. too weak
10:2	58W	+37 27	0	6.50	K0 III-II	4-4-4	Set 8 0 HV	too weak
						10/7	Set 5 Focus lost	cold and
							2 P.M. - 7	
							Clouds forming on the whole sky	

131

Date mon May 19-20/57 Observer Hd Bg Julian Day 2436343

⊙ 58 22 05.7 3465.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24232	HD97561	11 08 4	+20 41	I-25	E103a0	008	19.3	21 03	22 25	3
	Focus test									3

Transparency Conditions Hazy + getting worse, 132

Dome Temp.

Focus 15.38

Dome Temp. 56 F

Found Spectrograph focus set at 16.55

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 05	W 2h 45m	20 22 O.T.B.	0	7.67	G7 IV	4-4-4 15/10	Set 2. O-HV — Hopkins — closed up.	weak.

X meter Reading 5142 at 2129
" " 5197 at 2219

	mc	sc	NTW	STW	S	SW	ME
May 20	+23.6	-31.8	-40.6	-0.2	+8.6	-32.2	+6.8
21			+2m 2.4s			-31.2	+0.5

Tue, Wed May 20-21/58
Cloudy Partly clear after
20 00 A.M. EDT H.V.

133

Wed – Thurs.

Date May 21-22/58 Observer Se / Mg / Ki – Bk Julian Day 2436845

⊙ 60 17 34.4 3462.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Hour Angle End
24233	HD 24425	14.085	-0 22	I-25	103aO	.008	+16C	22:30	22:46		
24234	130952	14 458	-153	"	"	"	+15°C	22:55	23:08		
24235	HD 131111	14 46.6	+37 41	I-25	E103aO	"	+15°C	23:24	23 45		
24236	SDS 9408	15 589	+11 42	"	"	"	"	00:05	03 25	1	
	Focus Test	G.T.B									

Dome Temp. +52°F

Focus 15.43

Dome Temp.

Transparency Conditions Somewhat.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:46	5m W	-0°.35	0	6 40	F6 IV	4-4-4	Set 2 O-HV	l wk
23:16	7h	-2° 09	1	5.93	G8 III	4-4-4	Set 8 O-HV	l wk.
23:45	4h 25m W	+37° 25	1	6 50	K0 III	4-4-4	Set 2 O-HV	fine
03:25	3 05 03	11 34	0	5 6	K2	4-4-4	Set 5 Ex-UB Nearly covered at 3200 good	
						15/10	9	0 k
							13H+4	

135 Thurs.-Fri

Date May 22-23/58 Observer BK, Mai- Julian Day 2436340

⊙ 61 15 16.6 3460.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24237	HD 10[illegible]210	12 08.1	+11 24	I-25	E103a O	Set .009	13.5°	20:47	22:52	
24238	HOT40293	15 37.8	-10 37	I-25	E103a O	"	13.2°	23:14	—	

Dome Temp. 54°F

Focus 15.41

Dome Temp. 47° @ 1.00 A.M.

Transparency Conditions Clear

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:52	1h 25m W	+11 04	O	8.24	G3V	4-4-4	Set 2 Se-HV	Good
		-10 48		7.68	F5V		Set 8 Se-HV clouds (Heavy)	
							4 P.H. +12	

137

Fri-Sat.

Date May 23/24, 1958 Observer Bg-Ek-Dq Julian Day 2436347

⊙ 62 12 57.2 3459.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F
24238	HD 142198	15h48.1m	−16°26′	I-25	E103aO	.03 sat.	15.3°	23.00	23 12	
24239	HD 145148	1604.3	06 41	I-25	E103aO	"	15.0	23 28	00 08	
24240	HD 171012	18 27.3	−18° 26′	"	"	"	15.3	00 35	01 49	
24241	HD 170714	18 25.8	−05° 51′	"	"	"	15.2	01 58	03 35	

Dome Temp. 51° F

Focus 15.42

Dome Temp. 47°F

Transparency Conditions Clear

130

Ending Time E.S.T.	Hr Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
[illegible]	[illegible] 32E	-16 36	0	5.17	K0 III	4-4-4	set 2	O-HV	Look in vi.
[illegible]	[illegible] 10E	+6 29	0	7.00	K0 IV	4-4-4	set 8	O-HV.	fine
[illegible]	[illegible] 53E	-18 25	0	7.0	B0e	4-4-4	set 2	Radcliffe OB	Too much
[illegible]	5 W	-05 50	0	7.3	B5n	4-4-4	set 8	Radcliffe OB	" "
						15/10	set 5	focus Test	
								3 PH + 11	

Date Sun-Mon May 25-26, 19[illegible] Observer Mai O — Hr O Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
573-66	HD 111028	12 41.3	+10 06	5200	→3300	10	6/6	21 28	21 47
574-66	HD 126053	14 18.1	+1 43		"	10	6/6	21 54	22 13
575-66	HD 130952	14 45.8	−1 53		"	10	6/4	22 17	22 39
576-66	HD 131111	14 46.6	+37 41		"	10	6/5	22 48	23 08
577-66	HD 172167	18 33.6	+38 41		"	10	4/3	23 20	23 39
578-66	HD 150680	16 37.5	+31 47		"	10	5/5	23 47	00 06
579-66	HD 145328	16 05.3	+36 45		"	10	6/4	00 11	00 29
580-66	HD 158614	17 25.2	−0 59		"	10	6/4-5	00 33	00 51
581-66	HD 161797	17 42.5	+27 47		"	10	6/1	00 55	01 14
582-66	HD 168723	18 16.1	−2 55		"	10	6/1	01 17	01 35
583-66	HD 172167	18 33 6	+38 41		"	10	4/2	01 39	01 57
584-66	HD 188350	19 49.6	+00 01		→	10	6/4	02 05	02 13
585-66	HD 187929	19 47.4	+00 49		←	10	6/1	02 16	02 25
586-66	HD 187929	"	"		→	"	6/1	02 25	02 33
587-66	HD 188350	19 49 6	+00 01		←	"	6/4	02 37	02 46

(over)

Dome Temp. +51°

Focus

Dome Temp.

Transparency Conditions Clouds in W and NW 140

Ending Time E.S.T.	Hr Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 43	00 W	+9 45	10	6.66	K1 IV	30	4A/sec 2"/min	HV.
22 15	12 E	+1 25		6.87	dG3	"	" "	
22 39	13 E	−2 08	6	5.93	G8 [illegible]	"		HV Treat'd pantry'd + Spidium in UV 3440A
23 05	15 W	+37 26	"	6.50	K0III-IV	"	" "	HV
23 39	00 E	+38 44	"	0.03	A0 V	"	"	Stand.
00 [illegible]	38 E		"	3.46	G0 IV	"	" "	
00 29	12 W	+36 36	"	5.74	K0 III-IV	"		HV
00 51	40 W	−1 32	"	5.76	G8 IV-V	"	"	
01 17	35 E	+27 42	"	4.17	G5 IV	"	"	
01 35	47 E	−2 57	"	4.20	K0III-IV	"		
01 51		+38 44	"	0.03	A0 V	"		
02 13	43 E	+0 09	"	5.57	A0	"		
02 25	29 E	+0 51	"	Var	Var	"		
02 39		"	"	"	"	"		Clouds around
02 [illegible]		+0 09	"	5.57	A0	"		

Date May 25-26 (Cont'd) **Observer** O., Hr. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
588-66	HD 188350	19 49.6	+00 01	5200 →	3300	10	6/4	02 46	02 54
589-66	HD 187929	19 47.4	+00 45	←		10	6/1	02 59	03 07
590-66	HD 187929	19 47.4	+00 45	→		10	6/1	03 08	03 16
591-66	HD 188350	19 49.6	+00 01	←		10	6/4	03 21	03 29

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions.....

Ending Time E.S.T.	Hr Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 54	01E		6	5.57	A0	30		
03 07			"	Var	Var	"		
03 16	37E		"	"	"	"		
03 31	27E		"	5.57	A0	"		

	MC	BC	MTW	STW	S	SW	ME
May 27	+30.2	-37.0	+3m 20.2	+0m.5	+2.4	-25.1	+4.2

143

Date Nov 28-29/58 Observer [illegible] Julian Day 2436352

0 67 00 57.6 34 51.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24242	HD 114174	$13^h 03.8$	$5^\circ 46'$	I-25"	E103-aO	set 2.008	+16°C	21:02	21.29
24243	HD 124425	$14^h 08.5$	$-0^\circ 22'$	" "	"	"	+16°C	21,45	22.08
24244	HD 140263	$15^h 37.8$	$-10^\circ 37'$	" "	" " "	"	+16°C	22;26	23:10

Dome Temp. +5.2°

Focus 15.43

Dome Temp.

Transparency Conditions Some Clouds

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0h, 30m	+5° 24'	O	7.47	G5 IV	4-4-4	set 2 O-HV	Too weak
	0h 4' E	-0° 42'	O	6.4	F6 IV	4-4-4	set 8 O-HV	Too weak
	0h 4m E	-10° 49'	O	7.68	F5 II	4-4-4	set 2 Se-HV. Clouds	Too weak

4 P.H +8'

00 30 Cloudy-Closed up.

		MTW	SW	ME				
	May 29	+15.2	+13.7	+2.2				
	30	MC	SC	MTW	STW	S	SW	ME
		+30.0	-40.1	+2m 38.2	+4m 30	-0.6	+15.4	-0.3

Sat-Sun May 31st Bk-Se-5h.

200 visitors share Adisrage and a Cln.

		MC	SC	MTW	S	ME
	June 2	+32.0	-44.6	+3m 29.0	-6.2	+3.4

145

Date Mon-Tues June 2-3 1958 Observer MR - HV Julian Day 2436257

⊙ 71 48 24.2 3446.2

Plate No.	Object	R.A. 1900 1950	Declination 1900 1950	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
592-67	β Leo	11h 46.9m	+14° 49'	H5	Y2	.20	4/6?	21:16			
593-67	γ U Ma	11 51.5	+53 54	"		"	4/6?	21:36			
594-67	η U Ma	13 46.0	+49 31	"		"	4/4	21:57			
595-67	109 Vir	14 44.1	+02 04	"		"	5/3	22:17			
596-67	α C Br	15 32.9	-26 51	"		"	4/5	22:42			
597-67	α Dra	14 03.3	+64 34	"		"	5/3	23:02			
598-67	τ Her	16 18.6	+46 24	Hβ, Hγ+Hδ X2			5/4 16.3	23:20			
24245	HD 153344	16 53.8	+62 16	I-25	E103a-O	.002	16.2	00:36	01:36	4	
24246	" 155326	19 49.5	38.30	"	"	"	16.2	01:49	03:19		
	Focus f.f. 07B										

Dome Temp.....

Focus 15.53

Dome Temp.....

Transparency Conditions Good.

0230 Few wisps of cloud.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		—	6	2.21	A3 V	30"	W5'20 – 4210 D	1A°/s, 2"/mm slit 20
		+53° 56'	"	2.43	A0 I	"	4530 – 4208 D	"
		+49 30	"	1.66	B3 V	"	4540 – 4210 D	
		+02 04	"	3.74	A0 V	"	4520 – 4167 D	
		+26 51	"	2.21	A0 V	"	4520 – 4191 D	
		+64 35	"	3.59	A0 III	"	4520 – 4210 D	
		+46 22	"	3.73	B5 IV	"	4162 – 4734 D; 4520 (1 count/10³ — 3860 Selector 3 – 2 – 44)	
	109 W	+6[illegible] 1[illegible]	0	7.73	G5 IV	4-4-4	Set 2 0-Hv. Counter 5258 Bal. 331	fair
	[illegible] W	3[illegible] 37	0	8.34	G8 IV	4-4-4	" 8 " (0229) 5291 325 2	fair
						15/10	" 5 5296 325 3	
							3P11.18.	

147

Date June 3/56 Observer L-H-H-S Julian Day 2436358

⊙ 72 45 50.4 3445.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24247	HD 111028	12h 41.3	+10° 06'	I-25	F	.008	20.5°C	21:04	21:31	3
24248	HD 130952	14h 45.8	-1° 50'	I-25	"	"	20.7°C	21:45	21:59	3
24249	HD 131N	14h 46.6	+37° 41'	"	"	"	20.7°C	22:10	22:32	2
24250	HD 145325	16h 5.3	+36° 45	"	"	"	20.2°C	22:48	22:50	2
24251	HD 102307	15h 42.5	+13° 31'	"	"	"	20.9°C	22:59	23:25	1
24252	HD 152792	16h 50.4	+43° 00	"	"	"	20.5°C	23:36	00 36	1
24253	" 149890	16 32.6	31 09	"	"	"	20.4	00 44	01 54	2
	Focus) I	⊙ TB								

Dome Temp. 60°

Focus 15.49

Dome Temp.

Transparency Conditions Good

358
3475 +

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
31	1h 17 W	+9° 45'	O	6.66	K1 III	4-4-4	Obs HV.	good
1:59	0h 19 E	-2° 10'	O	5.93	G8 III	4-4-4	" "	fine
32	0h 14 E	+37° 26'	O	6.5	K0 III-II	4-4-4	OBS HV	fine
2:50	0h 9 E	+36° 36'	O	5.74	K0 II	4-4-4	OBS HV	fine
3:25	0° 5 W	+13° 20'	O	6.70	G2 II	4-4-4	Obs HV	fine
3:36	0h 15 W	+42° 54'	O	7.46	G0 V	4-4-4	Obs HV Set 3	fine
4:51	1h 15 W	31 21	O	7.66	F8 V	4-4-4	Set 2 Obs HV Hazy	fine
						15/10	" 8,000 Clouds Thickening	
							030 Aplanes.	

3 P. H. + 4

	mc	sc	mTW	sTW	s	sw	mE
June 4	+32.0	-47.5	3m 34.6	5m 34.8	-4.0	+21.2	-1.2

149

Date June 5/58 Thurs. Eve. Observer M. - Mai Julian Day 2436.360

⊙ 74 40 40.4 3444.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24254	HD 124425	$14^h\ 6.5^m$	$-0^\circ\ 22'$	I-25	E103a-O	s.f .005	+23° C	21:14	21:34	
24255	HD 126477	$14^h\ 31.7$	$-11^\circ\ 53'$	"	"	"	+20.1C	21:44	22.10	1
24256	HD 140281	$15^h\ 37.8$	$-10^\circ\ 37'$	"	"	"	+23° C	22.25	23.43	4
24257	HD 142373	$15^h\ 49.2$	$+4^\circ\ 44'$	"	"	"	+19.9 C	23:52	23:59	4
24258	HD 157089	$17^h\ 16.1$	$+01^\circ\ 32'$	"	"	"	20.1°	00:35	01:45	1
24259	HD 184499	$19^h\ 29.7$	$+32^\circ\ 59'$	"	"	"	20.2°	02:20	03:12	

Dome Temp. +59°

Focus 15.49

Dome Temp. 46°

Transparency Conditions Good

150

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0h 1W	-0° 42'	0	6.40	F6 III	4-4-4	Set 2 OKÉ HV	good
22.10	0h 15W	-12° 9'	0	6.67	F6 III-V	4-4-4	Set 8 " HV	& weak
23.03	0h 47W	-10° 50'	0	7.68	F5 VI	4-4-4	Set 2 Se HV	too weak
23.19	0h 46W	+42° 33'	0	5.16	F9 V	4-4-4	Set Se HV	good
01.45	1h 06W	+01° 27'	0"	7.55	G0 V	4-4-4	Set 2 Se HV (A Little Moonlight)	fine
03.22	0h 22W	+33° 06'	0"	7.19	G0 V	4-4-4	Set 8 Se HV.	fine

Moonlight in south & some cloud in west.

4 P.H. +0

Bridge not balanced

	MC	SC	MTW	STW	S	SW	ME
June 6	+35.0	-50.3	-21.2	+25.0	-7.1	+20.3	+1.8

151

Date Fri June 6-7/58 Observer L-lh-BK Julian Day 2436361

⊙ 75 38 04.4 3443.3

Plate No.	Object (HD)	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24260	142198	15h 48·1	-16° 26	I·25	103a-O	.008	15.1	21R 20m	21h 30m	1
24261	153344	16 53·8	+62 16	"	"	"	15.1	21 53	22 01	1
24262	174369	18 45·1	+24 56	"	"	"	15·0	23 35	23 55	2
24263	AD 99 r8	15 59	+11 42	"	"	"	15·0	00 03	00 03	3
24264	HD 174369	18 45·1	+24 56	"	"	"	14·2	02 10	03 30	2
	Trans. T+A	CTL								

Dome Temp. 55°F
Focus 15.42
Dome Temp. 44°F

Transparency Conditions Good

Spectacular aurora all night.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1h40mE	-16 37	O	5.17	K0 III IV	4-4-4	Set 2 Oke HV	good
2h 11 E	+62 10	O	7.73 9	5.IV	4-4-4	Set 8 " "	fine
2 10E	+24 48	O	6.56	A2 IV	4-4-4	Set 2 N - Binary	fine
3 44 W	11 22	O	84	K2	4-4-4	set 2 RK - VB	good (guide)
1 2 W	25 00	O	6.56	A2 n	4-4-4	8 N - Binary	fine
					15/10	8	Ok

Sat June 7-8 – clear with high cirrus
300 visitors – MR, SR, Mai
showed 24 and M3

	mc	sc	MTW	STW	S	SW	ME
June 9	+34.7	-54.6	+9.9	00	-9.3	+23.9	+4.2

Cldy at midnight
Mai. 2 ½ half.

	mc	sc	MTW	STW	S	SW	ME
JUNE 11	+36.1	-37.5	+7.2	-0.7	-11.9	+32.2	+3.9

solid cloud at 1:30

153

Date Wed June 11-12/58 Observer G. L. Gy. – H S Julian Day 2436366

⊙ 80 24 55.5 3440.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
242645	HD142373	15h 49.2m	+42° 44'	I-25"	103a-O	.008	21.1	9:23	9:31	4
242646	HD143333	15h 54.7	−16° 14'	I-25"	103a-O	.008	20.9	9:51	10:09	4
242647	HD149363	16h 29.1	−05° 56	I-25	103a-O	.008	20.2	10:33	00 09	1
242648	HD175544	18 50.7	+00 08	"	"	"	20.3	00 15	01 32	1
242649	" 214946	22 36.7	44 29	"	"	"	20.5	01 51	02 56	2
	Name Plt ⊙/B.									

Dome Temp. 58°F

Focus 15.50

Dome Temp.

Transparency Conditions

154

366

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9:31	1h 18m E	42° 34'	0	5.16	F_9 V	~~4-4-4~~	Set 2 S - H.V. -	
10:09	0 47 E	-16 24	0	6.00	F_8 V	4-4-4	Set 8 Exp. meter Sensitivity 3 at 9:59 count ~~460~~, at 10:16 count 505	
[illegible]	039W	-0603	0	8.0	O_9	4-4-4	Set 2. Paddle 1B. 1038 513, No B.I. 3	
[illegible]	012E	+00 13	00	7.7	B5	4-4-4	" 8 R.I. 1B.	
0256	240E	44 46	00	7.26	A5	4-4-4	" 2 Spect 13 in N. Thin Cloud.	
						15/10	" 8	

IRH + 8?

Who stole ARC-STRIKER?

	MC	SC	MTW	STW	S	SW	ME
JUNE 13	+41.5	-01.0	-5.9	-0.4	-13.0	+28.1	-1.7

155

Sun-Moon.

Date June 15-16, 1958 Observer Bk, Cg; -Mai Julian Day 2436 370

⊙ 84 14 15.2 3438.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
2426/70	HD114174	13h 03.8	+05° 46'	1-25	103a-0	.008	17.2	20:55	21:55	
2427/71	HD130952	14h 45.8	-01 53	1-25	103a-0	"	17.0	22:04	22:24	
2427/72	HD143333	15h 54.7	-16° 14	1-25	"	"	17.0	22:34	22:54	
2427/73	HD136064	15h 13.5	+67 44	1-25	"	"	17.1	23:06	23:20	
2427/74	HD154528	17 00.9	77 48	"	"	"	17.0	23:29	23:59	
599-68	HD 5 Aqu. 182350	19 49.5	00 01	3300→5200		10	6/4	01 12	01 20	
600-68	HD 20 Aqu. 187929	19 47 23	00 45	5200→3300		"	6/2	01 26	01 34	
601-68	HD 187929	19 47 23	00 95	3300→5200		"	6/2	01 39	01 47	
602-68	HD 182350	19h 49.5	00 01	5200→3300		"	6/4	01 58	02 07	
603-68	HD 211336	22 11 21	56 33	3300→5200		"	6/1	02 59	03 08	
604-68	HD 212306	22 25 27	57 54.2	5200→3300		"	5/5	03 19	03 28	
605-68	HD 212306	22 25 27	57 54.8	3300→5200		"	5/5	03 34	03 40	

Dome Temp. 62°F — Transparency Conditions Good — 154

Focus 15.45

Dome Temp. 49°F

370
3431

Ending Time B.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:55	2h06mW	+05°24'	O	7.47	G_5 IV	4-4-4	Set 2. O-H.V. Exp. 5735 155 5890 Set 2	Weak
22:24	0h52mW	−02 09	O	5.93	G_8 III-IV	4-4-4	Set 8 O-H.V. 5934 6159 265	Good
22:54	0h14mW	−16°26'	O	6.00	F_8 V	4-4-4	Set 2 Se-H.V. 6230 6465 235	Weak
23:21	1 23W	+67 29	O	5.64	F_8 V	4-4-4	8 Se-H.V. 6495 6780 285	Thin
23:50	0 19W	77 42	O	6.7	A_0	4-4-4	Set 5 R/N Sp 3 in 6840 7140 300	Fine
00:20	1 09E	+0 09	O	5.57	A_0	3-0	1 PH = 4 4 Å/sec	
00:34	0 58E	+0 51	O	Var	Var	"		
01:47	0 44E	0 51	O	"	"	"		
02:05	0 27E	0 09	O	5.57	A_0	"		
03:39	0 47 E	56 30	O	4.51	F_0	"		
03:44	0 40 E	58 11	O	Var	Var	"		
03:—	0 30 E	58 11	O	"	"	"		

	mc	sc	MTW	STW	S	SW	mE
June 16	+43.7	−1m15.0	−28.7	−0.8m	−15.9	+31.1	+2.9

157

Date June 17-18, 1958 Observer [illegible] – HS Julian Day 2436 372

⊙ 86 08 52.0 3437.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24274/5	HD 14174	13h 03.1	+5° 46'	1-25	103a-O	.08	+18°C	21.06	23.06
24276	HD 174369	18h 45.1	+24° 56'	"	E 103a-O	"	+18°C	23.47	0017
24277	HD 186162	19 37.8	+15 02	"	"	"	+17.6	00 35	0241
24278	HD 174369	18 45.1	+24 56	"	"	"	17.3	0305	0331
↳	[illegible]		073						

Dome Temp. 62°F Transparency Conditions Good 150

Focus 15.46

372

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23.0	3h 25m W	+15° 24'	0	7.47	G5 II	4-4-4	O-HV (explain false start)	fine
	1 04 E	+25°	0	6.56	A2	4-4-4	Spectroscopic Binary Set 2.	fine
037	0 27 W	+15 08	0	8.0	B5	4-4-4	Set 2 Radcliffe OB 6	fine.
033	2 10 W	2 4 59	0	6.6	A2	4-4-4	" 8 Spect. Bin. P.H. bad on magnetism.	fine
						15/10	" 5	OK

3 P.H. Plates Needed.

	mc	sc	mw	stw	s	sw	ME
June 18	40.3	-1°07.6	-48.1	-1°.1	-16.8	+21.2	+3.6

159

Wed-Thurs.

Date June 18-19, 1958 Observer Dq - Mai Julian Day 2436 373

⊙ 87 06 09.5 3436.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
2427/9	HD 166628	18 06.7	-19° 28'	I-25	F103a0	.008	19.5°	22 46	2400	
2427/80	HD 180587	19h 12m 20.0	+10° 49'	I-25	"	"	19.5°	00 24	02 45	
									actually ran until 02 00	
Focus Test		OTC								

Time Temp. 60°F

Focus 15.48

Time Temp. 56°F.

Transparency Conditions Clear

A few clouds at the beginning

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	38E	-19° 23'	0	7.1	B3	4-4-4	set 2 : Radcliffe OBB	I weak / spoiled by poor-lighting focus test.
	04W	+10° 54'	0	8.1	B4	4-4-4	set 8 Radcliffe OB Stars	
							2 P.H. +12	
						10/7	(9 goofed!) Should have been 10/10 & just noticed (too late).	

Some cloud at 00h 30m passed over star 00h 50m more obscuring cloud. Star barely visible through cloud 01h00 → 02h05 Lost, hopelessly cloudy Same at 02h 45m

	mc	sc	nnw	snw	s	sw	me
June 20	+51.2	-111.9	+52.9	+1.4	-18.5	+24.6	-1.8

161

On zero 3 200 counts reqd.
" " 2 23 " "

Date Jan 21-22 1958 Observer W. H. - Mais Julian Day 2436376
⊙ 89 57 58.3 3435.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
2428/1	HD186228	18h 6.4'	-19° 28'	I-25	E 103 aO	.008	17.0	22:52	01 00
2428/2	HD174369	18h 45.1	+24° 56'	"	"	.008	17.0	01 13	01 42
2428/3	HD186182	19h 37.8	+15° 02	"	"	"	16.9	01 54	03 34
	Focus Test	OTB							

Dome Temp. 58.5 — Transparency Conditions cloud — 16R

Focus 15.4b

Dome Temp.

250 Visitors. Showed M5 with 24" Hd, Mar, Mg
RASC showed 4, 5, 7. Aurora

Ending Time E.S.T.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 3[illegible]	0	32W -19°28	0	7.1	B_3	4-4-4	7358 to 7558 Radcliff OB set 2	good
01 4[illegible]	0	37W +25°00	0	6.56	A_2	4-4-4	" 7561 to 7762 Spect. Bin. set 2	fine
03 1[illegible]	1	37W +15° 09'	0-1	8.0	B_5	4-4-4 15/10	" 7764-7910 Radcliffe OB set-6 set-9	good cl.
							4 P.H. + 8	
							some cloud 02h 30m.	

163

Date Mon Tues June 23-24 1918 Observer MR — Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
			1860						
599-68	109 Vir	14h 44.1	+02° 04	HY.2		20	5/4	21hrs 21	
600-68	α Lyr	18h 35.6	+38 44	3400	S 225	20	4/0	21hrs 54	
				3550	—	5	4/3		

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions..... .154

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		02°04	5"	374	A0V	30"	4520-4220 · 1 A°/s, 2"/min slit 20	
		38°44		0·04	A0V		Lobey too hazy & transparency varying too fast to continue	
							JUNE 24	
							[illegible]	
							[illegible]	
							JUNE 26	
							[illegible]	
							[illegible]	

165

Date Friday June 27 28/58 Observer L - Bai Julian Day 2436382

⊙ 95 41 18.5 3431.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	H.
24287 4	114174	13 03.8	+05 46	I·25	E-103Ao	set .008	21.4	21 06	22 06	1
24288 5	166689	18 06.7	-16 24	"	"	"	21.4	22 14	01 00	0
24289 6	180587	19 12.0	+10 49	"	"	"	21.2	01 10	03 50	2
	Focus Test	OTB								

Dome Temp. 67°F

Focus 15.50

Dome Temp. 57°F

Transparency Conditions Hazy

155

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 06	3 04W	05 26	0	7.47	G5IV	4-4-4	Sid 2 : O-HV	
01 00	0 56W	-16 24	0	7.3	B1	4-4-4	" 2 Radcliffe O-B } Fogged	
03 50	2 41W	+10 54	0	8.1	B4	4-4-4	Sed 8 Radcliffe O-E } Fogged	
						15/10	Sed 8	
							2 P.H. + 8	

167

Date June 28-29/58 Observer Eq-Dq-Mai Julian Day 2436 383

⊙ 96 38 30.0 3431.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	H.
242847	166628	18 06.4	-19 27	1-25	103a0	.008	24.0	10:58	12:18	

Dome Temp. 69
Focus 15.55
Dome Temp. 57

Transparency Conditions Hazy with some clouds 1st cloudy at 12:00.

383
3431.2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12:18	15m W	-19 27	0	7.1	B_3	4-4-4	Set 2 Pokelyffe 0-2 Fogged	
							Clouded Out. 00:30	
							Dy - Mai - Dy.	
							Sat June 28 - Visitors - about 7 P.M.	
							Showed 11 Bubbles.	

169

Dominion Day!

Date Monday Jun 30 - Jul 1/1958 Observer DG - Mai Julian Day 2436 385

⊙ 98 32 52.1 3430.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E
24287/8	+D 161961	17h 43.4	−02° 09	I-25	103aO	.058	+23°C	21:00	21 30	4

Dome Temp. 78°F
Focus 15.61
Dome Temp. 74°F

Transparency Conditions Very hazy at first

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 04E	-02° 11'	0	8.2	Bo	4-44	set 2 Radcliffe OB Foggy Clouds at 23:30 EST Dome closed at 00:30 EST	
					15/10	set 8 focus test 1 PH + 7 even hazier later!	
					July 3	SC MTW STW S SW ME -32.7 +8.2 +0.2m -31.5 +4.8 +0.8	
						Loaded platholder now in frig.	
						Saturday July 2-6 N, Sh, Mai Cloudy [illegible]	

171

Hd
Bk

Date Sun-Mon. July 6/7, 1958 Observer Lin - Mai Julian Day 2436 391

⊙ 104 15 57.7 3431.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
2428 29	HD 166022	18 06.4	-19 28	I-25	E103a-0	set .008	24 0	23 22	00 28	1	5' 59
2429 30	HD 180587	19 12.0	+10 49	"	"	"	23.6	00 35	03 28	1	5' 55
	Focus test		OTB								

Dome Temp
Focus
Dome Temp

July 7

Dome Temp.....

Focus..... 15:55

Dome Temp.....

Transparency Conditions .....

2nd half - poor, cloudy thick haze about moon

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
28	3h 59	-19 28	0	7.1	B3	4-44	Set 2 Radcliffe C3 prog.	Too weak
28	2h 55	+10 54	0	8.1	B4	4-4-	Set 8 " " "	Too weak
						15/10	Set 5	OK.
							Couldn't balance ex. mtr. diff. 8 pointers moved but diff. 8 for pointer wouldn't set on "zero"	
							ex. Integrator moved up to .69	
							3 P.H. + 4 Diff. 8 for moved down to a minus reading	
							By putting diff. 8 mvs. on 5 balance achieved. occurred at 01 30, set second at 60	
							Light broken cloud forming in south at 02:10 A.M.	
July 7	mc sc	mtw	stw	s	sw	mc	02:23 Light Cloud Overhead	
	+16.4 -37.1	+11.2	-2.6	-34.7	+3.8	+6.3	Star blocked out for 15 mins. Clouded out at 02:28 A.M.	
							A. B. In making focus test found prisms not set in middle slot!!	

173

Date Tues July 8/9 1958 Observer L-Lx-Hr Julian Day 2436393

⊙ 106 10 21.5 3432.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
2429 Ø1	HD 161961	17h 43.4	-02 09	I-25	E-103-AO	SET .008	22.3	21 38	23 54	2	0.564
2429 12	HD 180587	19 12.0	10 49	"	"	.008	21.8	00 10	03 20	2	0.5 W
	Focus Test		OTB								

Dome Temp. 65°F

Transparency Conditions Good

Focus 15.52

Dome Temp.

Bright Aurora

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 54	0 56W	-02 12	0	8.2	B0	4-4-4	Set 2 Radcliffe OB	Good
3 20	0255W	10 53	0	8.1	B4	4-4-4	Set 8 " "	Good
						15/10	" 5	
							2 P. H. In frig. Aurora ... light ... just before ...	

Date Wed July 9/10 - Thurs Observer DG - Lw Julian Day 2436 394

⊙ 107 07 33.9 3432.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
24293	HD 161021	18^h 12.7	$-18°$ 39'	I-25	F10340	set .008	24.0C	21^h 18^m	22^h 08	3
24294	171 012	18 27.3	$-18°$ 26'	"	"	"	24°.0	22^h 15^m	23^h .5	3
24295	HD 175544	18 50.7	+00 08	"	"	"	23.9	23^h 40^m	0052	4
24296	HD187691	1946.2	+1010	"	"	"	23.9	0124	0140	1
24297	HD184467	1929.5	+5824	"	"	"	23.8	0208	0230	1
	Focus Test - G.T.B. -									

Dome Temp. 71°F

Focus 15.55

Dome Temp. 63°F

Transparency Conditions Clouds in the north haze

176

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
394									
H32.9									
[illegible]	2h 44mE	-18 37	0	6.7	B0	4-4-4	Set 2	O B Radcliffe	weak
[illegible]	1h 33mE	-18 24	0	7.0	B0e	4-4-4	Set 8	" "	faint
052	0h 52mW	+00 14	0	7.7	B5	4-4-4	Set 2	" "	strong
140	0h 13mW	+10 17	0	5.8	F8	4-4-4	Set 2	Stds. Vel Stars (fine) Cloudy in south at 1:30	
230	1h 54mW	+58 28	0	7.5	K5	4-4-4	Set 8	" " " (lowwh) clouds all over at 2:15. Cut exposure.	
						15"/10"	Set 5		

Clouded Out.

OPH + some in box.

	SC	MTW	STW	S	SW	MG
July 11	-30.4	+22.9	+1.0	-30.4	-10.2	+0.8

177

Date Sat July 12/13 1958 Observer LIK Dq - PCK Julian Day 2436397

⊙ 109 59 13.8 3434.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
24298	HD 175544	18 50.7	+00 08	I-25	F10320	0.008	25.1°C	22 53	24 33	1
24299	AGC 15900 B	19 42.1	+34 46	"	"	"	25.0°C	01 02	03 42	2
	Focus Tab	OTB								

178

Dome Temp. 73 °F
Focus 15.57
Dome Temp. 68° F

Transparency Conditions Partly cloudy, improved about 23h
Showed π Bootis to 160 visitors
approximately. Bk, Sh, Dq demonstrated Telescope

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
a 33	0h 45m W	+00 13'	0	7.7	B5	4-4-4	Set 2 OB Radcliffe "poor focus"	Lunch
2 42	3 02 W	+34 55'	1	8.5	A2	4-4-4	Set 2 Visual Binaries Programme – BKUBF	fine
						15/10	7	
							1 Dtl, photos needed	

179

14 July 1958 - Mai got a count on square star. tried to find square in north (bright star) each time blocked and by cloud. Closed up 02:00 A.M. E.S.T.

Date..... Observer..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.A.
24300	HD 119547	20 36 0	+36 34	I 45	E 103a O	.008	25.3	} Clouds		
24300	HD 197436	20 38.6	+35 51	I 25	E 103a E	.008	25.3			

Dome Temp. 57°5

Focus 15.27

Dome Temp.

Transparency Conditions Cloudy

100

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							mc sc mTW sTW S sW mE	
						July 14	+15.9 -43.5 +31.1 +5.1 -38.6 -22.3 -5.2	

181

Date Wed July 16-17, 1958 Observer DS – Main Julian Day 2436401

⊙ 113 48 13.4 3436.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
2430Y0	HD 172028	18 32.8	−00 29	I-25	Ei 1a O	Sci .008	24°2C	21 05	23 35	3
2430μ							25°8	23 44	00 14	4
2430Y5	HD 187923	19 47.4	+11 23	"	"	"	23°8	00 22	00 48	4
2430Y4	HD 208776	21 53.4	+03 18	"	"	"	23°7	01 01	02 15	1
2430Y1	HD 211476	22 12.3	+12 24	"	"	"	23°5	02 28	03 42	1
	Focus Test	07 B								

Dome Temp. 69°F
Focus 15.55
Dome Temp. 59°E

Transparency Conditions hazy

182
Magnificent Night.

Seeing variable
some sky aurora.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
2.15	1 18 W	-00 26	0	8.1	B3	4-4-4	set 2	03 Radcliffe	Lweak
23 -	0 13 E	-10 04	0	[illegible]	G0 I	4-4-4	set 2	Se - HV	fine
[illegible]	0 19 W	+11 32	0-1	6.30	G_2 V	4-4-4	set 8	Se.-HV. Ex. Mtr. [illegible]	fine
12 [illegible]	0 20 E	+03 34	0-1	[illegible]	G0 V	4-4-4	set 2	Se.-HV	fine
3 41	0 48 W	+12 41	0-1	7.63	G_2 V	4-4-4	set 8	Se-HV 08-8-105,	fine
						5/10	set 5		cl

2 P.H. + 8

	mc	sc	mTw	sTw	s	sw	mE
July 18	+15.4	-47.2	+69.2	+43.8	-42.7	-31.3	-10.4

183

Date Sat. July 19-20, 1958 Observer Liu Mai Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions Cloudy and stormy 184

Dr, Lick, Mar demonstrated telescope to 30 visitors, gave lecture —

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality

185

Date Sun July 20-21 Observer Li Se Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T. (Sid Time Middle of Exp.)	Ending Time E.S.T.	P.
601-69	HD 139006	15h 30.5m	+27 03	5200 -	3400		4/5	SID ϵ 17.22		
602-69	HD 141527	15h 44.5m	+28 08	5200 -	3400		6/3	18 00		
603-69	HD 172167	18h 33.6	+38 41	"	"		3/5			

Dome Temp. 62°F

Focus

Dome Temp.

Transparency Conditions

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	1h 49m W	+26° 53′	0	2.4	A0V	30″	UV at 4/6 4A/sec	
	2 14 W	+28° 17′		5.8	F8I6	30″	R Coronae	
		+38° 45′		0.03	A0V	〃	UV at 3/6 CLOUDS	

	mc	sc	mTW	sTW	S	SW	ME
July 21	+14.3	−49.8	+54.7	+25.0	−44.0	−30.1	−6.2

187

Li
Dg
Se

Date Mon July 21-22 Observer ..... Julian Day .....

Plate No.	Object	R.A. ~~1900~~ 1960	Declination ~~1900~~ 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
604-70	τ Her	16h 18.6m	+46 24	Hβ,γ	8×2	20	5/5	21h 19m		
	τ Her	16h 18.6m	+46 24	"		20	5/5	21h 28m		
605-70	α Lyr	18h 35 6	+38 45	Hβ,γ	8×2	10	4/3	22h 41m		
606-70	α Cyg	20h 40 1	+45 06	Hβ,γ	8×2	10	4/5	23h 48m		
607-70	55 Cyg	20h 47.5	+45 58	Hβ,γ	8×2	20	"	00h 33m		
608-70	10 Lac	22h 37.3	+38° 51	Hβ,γ	8×2	20	5/5	01h 45m		
609-70	HD 218440	23h 05.5	+59° 32	Hγ		20	6/4	03h 10m		
610-70	AR Cas	23h 28.2	+58°20	Hγ		20	6/1	03h 32m		
~~611-70~~	: And	23h 36.1	+43° 03	Hγ		20				

Dome Temp. 64°F

Transparency Conditions excellent

Focus

Dome Temp. 61°F

Ending Time E.S.T.	Hour Angle End / Begin	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	5h 41 W	+46 24	7"	3.73	B5 V	30"	4988-4750 * dulled off 1A/sec 2"/min	
	0h 50 W	+46 24	7"	3.73	B5 V	30"	4960-4760 4000-4540 (5/3)	
	0h 13 E	+38 43	10"	0.04	A0 V	30"	4960-4760 (4/3) 4460-4E (4/2) 1A/Sec 2"/min	
	1h 12 E	+45 10	10"	1.35	A2 Ia	30"	4540-4000 (4/5) 4960-4760 (5/1)	
	1h 34 E	+45 58	6"	5.12	B3 Ia	30"	4960-4760 (6/4) and (6/3) 4650-4000 (6/3)	
	1h 10 E	+38 48	5"	4.67	O9 V	30"	4650-4000 (5/5) 4960-4760 (5/6)	
	0h 15 E	+59 28	4"	6.28	B2 V	30"	4540.4250 1A/Sec 2"/min	
	0h 16 E	+58 18	4"	4.9	B3 V	30"	4540-4260 1A/Sec 2"/min double *, took brightest	
				4.28	B8 V	30"	SKY TOO BRIGHT - Clouds + Sun	

189

Date Tues. July 22-23 Observer Li Se Julian Day 2436407

⊙ 119 31 53.5 3437.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Sec Angle Incl
24305	HD 211476	22 12.3	+12 24	T-3	EN-6	Foc	21.8C	01 42	01 42	2	

Dome Temp. 67°F

Focus 15.51

Dome Temp.

Transparency Conditions clear for ~ 1½ hr 190

407

3437.6

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	23h	13W 12 43	1	763	G2V	4-4-4	set 2 Se #V * lost in haze 1 pH +8	l mea

191

Date Wed July 23-24 Observer Seki Julian Day 2436408

⊙ 120 29 11.1 3438.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24306	HD 170714	$18^h\ 25.8^m$	$-05°\ 51'$	I-25	103aO	Set .008	26.3C	$21^h\ 16^m$	$23^h\ 24^m$	3
24307	HD 189340	$19^h\ 54.4^m$	$-10°\ 13'$	I-25	103aO	"	26.1C	$23^h\ 37^m$	$00^h\ 22^m$	4
24308	HD 182807	$19^h\ 21.3^m$	$+24°\ 44'$	"	"	"	26.0C	$00^h\ 31^m$	$01^h\ 01^m$	4
24309	HD 215812	$22^h\ 42.7^m$	$-04°\ 45'$	"	"	"	26.1C	$01^h\ 18^m$	$02^h\ 31$	1
24310	HD 225239	$23^h\ 59.6^m$	$+34°\ 07'$	"	"	"	25.9C	$03^h\ 02^m$	03 28	1

Dome Temp. 76°F

Focus 15.58

Dome Temp. 67°F

Transparency Conditions clear

192.

408
3438.0

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 22	0h 43m W	-05° 50'	0	7.3	B5 II	4-4-4	Set 2	OB Radcliffe.	good,
00 27	0h 12m W	-10° 05'	0	6.45	G0 II	4-4-4	Set 2	Se H.V.	fine
01 31	1h 25m W	+24° 51'	0	6.71	F6 II	4-4-4	Set 8	" "	l weak (guiding
02 35	3h 25E	-04° 48'	0	7.11	G5 II	4-4-4	Set 2	" " "Poor focus"	too weak
03 40	5h 46E	+34° 26'	1	6.74	G2 II	4-4-	Set 8	" "	fine
						1 PH +5			
							MTW ME		
						July 25	+48.8 +2.0		

193

Li
Se

Date Thurs July 24-25 **Observer** Hd **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.

Dome Temp
Secs
Dome Temp

Hour Angle End

Dome Temp. 75°F

Focus

Dome Temp.

Transparency Conditions broken

Hd, Se + Li showed Saturn to 30 visitors

1PU

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality

195

Sat.

Date Jul 26-27 Observer SR DG-SAG. Julian Day 2436 411

⊙ 123 21 06.1 3439.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E
611 -71	α Lyr	18h35.6	+38°48	Hβ, Hγ → Hε		10		23h19	2h00	
24311	HD 192954	20 12.6	+15 33	1-25	103a-0	.008	25.2	1:19	3:19	2
24312	HD 217050	22 52.7	+48 09	1-25	103a-0	"	24.7	4:00	4:08	2
	Focus test =	OTB								

Dome Temp. 69°F

Focus 15.57

Dome Temp.

Transparency Conditions Clear

Dq, Sh, Gg demonstrated telescope
showed Saturn, then M13 globular cluster to 190 visitors
Bh and Li also here part of the time

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			.04	A0 V	30"	4960-4760 (4/3)	
7h04W	154'4	0!	7.3	A2e	4-4-4	Set 2. Ie - Shell Stars	too weak
1 12W	4827	0	5.2	Bne	4-4-4	Set 8.	too weak
					15/10	Set 5 (most of 5)	

3 PH + 2
(in chocolate box) (in yellow box)

Filmy Nights 3-4

	me	SC	MTW	STW	S	SW	ME
July 28	+13.0	-52.3	+33.8	+3.0	-48.5	-37.0	-0.8

197

1958

Date Jan 31 Observer [illegible] Julian Day 2436416

⊙ 128 07 48.7 3442.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.A.
24313	HD 175540	18 50.7	+6 08	I-S	E103a0	008	+24.2	21 23	23 41	3
24314	MWC 317 HD 183143	19 28.0	+18 45	"	"	"	"	23 47	1:45	4
24315	MWC 395 HD 217543	22 56.3	+38 10	"	"	"	24.0	2:00	2:36	1
24316	MWC 391 HD 218393	23 02.6	+49 40	"	"	"	23.9	2:52	3:28	3
24317	MWC 407 HD 234589	23 53.8	45 52	"	"	"	"	3:42	4:10	2
	[illegible]		89 12							

Dome Temp. 55°

Focus 15.55

Dome Temp.

Transparency Conditions Fair very good

July 29-30

198

Mai.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1-2	2h 1 07	+ 0° 12	0	7.7	B5	4-4-4	Set 2 2h 21 35 count 1349, 2h 2m 41 1547 Rowland 08	fine
1:4	2h 39 W	+ 18 11	0	6.9	B7	4-4-4	Set 2 Be prog. at 23 47 count 1554 at 00 48 " 1670	fine
2:3	0 03 E	+ 38 28	0	6.4	B3ne	4-4-4	Set 5 Be prog. at 0202 1971 at 0238 " 1795	Listing
3:2	3 43 W	+ 49 58	0	6.8	Ave	4-4-4	Set 5 " " at 3:28 2nd	Listing
4:10	2 33 W	+ 46 12	0	6.5	B3ne	4-4-4	Set 5 " " begin 3046 end	Listing
						15/10"	Set 9	

2 PH + 8?

	mc	sc	mtw	stw	s	sw	me
Aug. 1	+11.4	-40.4	+9.2	-22.5	-60.9	-43.8	-5.8

199

Date Fri Aug 1/2 Observer Li Sh Julian Day 2436417

⊙ 129 05 11.6 3444.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24318	HD 175544	$18^h\ 50.^m7$	$+00°\ 08'$	I-25	H03-aO	Set .008	26.5C	$21^h\ 19^m$	23 23	1
24319	HD 187399	$19^h\ 44.^m7$	$+29°\ 10'$	"	"	"	26.4C	$23^h\ 38^m$	$00^h\ 34^m$	4
24320	HD 217050	$22^h\ 52.^m7$	$+48°\ 09'$	"	"	"	26.5C	$00^h\ 51^m$	$01^h\ 14^m$	4
24321	M.W.C. 395 HD 217050	"	"	"	"	"	26.6C	$01^h\ 16^m$	$01^h\ 36^m$	1
24322	M.W.C. 395 HD 217543	$22^h\ 56.^m3$	$+38°\ 10'$	"	"	"	26.5C	$01^h\ 51^m$	$02^h\ 19^m$	1
24323	HD 214946	$22^h\ 36.^m7$	$+44°\ 29'$	"	"	"	26.4C	$02^h\ 34^m$	$03^h\ 40^m$	2
24324	M.W.C. 10 HD 6343	$00^h\ 59.^m4$	$+65°\ 26'$	"	"	"	26.5C	$04^h\ 04^m$	$04^h\ 3[illegible]^m$	3
	Focus Test									

Dome Temp. 75°F

Focus 15.60

Dome Temp. 68°F

Transparency Conditions clear - light haze - bright moon

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0h 53m W	+00° 13'	0-1	7.7	B5	4-4-4	Set 2 OB Radcliffe	fine
	1h 10m W	29° 17'	0-1	7.7	B9e	4-4-4	Set 2 Se Shell Star	fine
	21h 16m E	48° 27'	0-1	5.2	B3ne	4-4-	Set 8	strong
	20h 54m E	" "	1	"	"	4-8	Set 2 Be Programme Hd	strong
	20h 17m E	38° 27'	1	6.4	B3ne	4-4-4	Set 8 " " "	strong
	21h 25m W	44° 46	1	7.26	A5	4-4-4	Set 2 Spectroscopic Binary	strong
	0h 0m W	[illegible]	0	7.1	B5ep	4-4-4	Set 2 Be Programme Hd	fine
						15/10	Set 8	

1PH + 4

Date Sat. August 2-3, 1958 Observer Li ~ Li Julian Day

Plate No.	Object	R.A. ~~1900~~ 1960	Declination ~~1900~~ 1960	Inst.	~~Emulsion~~	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
612-72	α Lyrae	18h 35.6	+38° 48'	Hβ,	8,8 X2	10	4/2-3	——	23h 51m	
613-72	α Cyg	20h 40.0	+45° 06'	"	"	"	4/5-6	00h 05m		
614-72	55 Cyg	20h 47.5	+45° 58'	"	"	"	6/4-3	00h 48m		
615-72	10 Lac	22h 37.3	+38° 51'	"	"	"	6/2-3	01h 55m		
616-72	HD 218440	23h 05.5	+59° 32'	Hγ	γ 2	set 20	6/4	02h 50m		
617-72	AR Cas	23h 28.2	+58° 20'	"	"	"	5/5	03h 14m		
618-72	ι And	23h 36.1	+43° 03'	"	"	"	5/4	03h 36m		
619-72	ε Cas	00h 39.7	+63° 41'	"	"	"	5/2	03h 59m		

Dome Temp. 74°F

Focus

Dome Temp. 71°F

Transparency Conditions Clear

D. L. demonstrated Telescope, showed M13 to about 150 meters.

Ending Time E.S.T.	Hour Angle ~~End~~ FAST	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	5h 43m W	+38° 45'	7"	0.04	A5V	30"	4960-4959 4960-4760 Grid A, 1R/sec,	2"/min
	0h 03m E	+45° 10'	8"	1.35	A2Ia	30"	4540 Å-4000 · 4960-4760 Grid A, "	"
	0h 28m W	+3° 57'	5"	5.22	B3Ia	30"	4960-4760 4650-4256 4650+4000 Grid A, B, "	"
	0h 15m E	+33° 48'	5"	4.67	O9V	30"	4650-3997 4960-4760 Grid A,	
	0h 00m	+39° 29'	4"	6.28	B2V	30"	4540-4262 Grid B	
	3h 14m W	+58° 18'	5"	4.9	B3V	30"	4540-4259 Grid B,	"
	0h 27m W	+43° 03'	5"	4.28	B8V	30"	4540-4260 Grid D, "	"
	0h 08m E	+53° 40'	5"	3.72	B2V	30"	4540-4241 Grid D, "	"

Date Sun-Mon, 1958 Aug. 3/4 Observer B.K – H.V Julian Day 2436413

0 131 00 00.6 346.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24325	HD 180587	19 12.0	+10 49	D-25	E-103a-0	cel .008	+280	21 26	23 56
24326	HD 186182	19 37.8	+15 02	"	"	"	"	00 00	03 06
24327	HD 41850 M 4 C 8	00 39.2	+47 44	"	"	"	"	03 56	04 01
	"						28.0	04 01 30	04 04 30
	Flow	Test		OTB					

Dome Temp. 75°F

Focus 1361

Dome Temp. .....

Transparency Conditions Good, cloudy earlier

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	1 17 41	10 54	0	8.1	B4	4-4-4	set 2 2a delete prog. Counter 2763 2354 2850	too weak
[illegible]	[illegible]	[illegible]	00	8.0	B5	4-4-4	8	[illegible] weak
[illegible]			0	4.7	B4 nebB	6-?	" 2 HD-Be 5m 2 Cont to 3 x 3 l. 1.	[illegible] strong
[illegible]	0006E	48 01				12	" 5 3m	strong
						15/10	" 9	OK
							3 P.H. loaded in frig	

Date Mon-Tues Aug 4/5 Observer hi-L. Jg. Julian Day 2436420

⊙ 131 57 26.8 3447.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
620-73	τ Her	(1960) $16^h\ 18^m.6$	(1960) $+46°\ 24'$	H(F.V)	8 x 2	set 20	5/4-3	$21^h\ 13^m$		
621-73	ι Her	$17^h\ 38^m.3$	$+46\ 02$	"	"	"	5/4-3	$21^h\ 54^m$		
24328	HD 187399	19 44.7	+29 10	"	"	"	24.4	23 10	00:36	2
24329	HD 195407	30 26.0	+36 39	I-31	103aE	.002	24.1	00:47	1:43	2
24330	HD 209682	31 52.9	+64 52	"	"	"	24.0	2:07	2:15	3
	"						"	2:16	2:30	3
	"						"	2:31	2:59	3
24331	HD 209296	157.2	+56 14	"	"	"	24.0	3:28	4:58	3
	Focus		Cent		OG 13					4

Dome Temp. 73

Focus 15.55

Dome Temp. 64

Transparency Conditions Clear

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
(START) 21h 24m W	+46° 23′	7″	3.73	B5 II	30″	4960-4760 4540-3984, Std A, 8/Sec,	2"/min
(START) 20h 50m W	+46° 02′	8″	3.68	B3 II	30″	4960-4759 4540-4000, " , B, "	"
1h 25 W	+29 17	0-1	7.7	$B9_4$	4-4-4	Set 2 Sc shell sta: 2946-69	strong
1h 49m W	+36 48	0-1	7.7	B_{3e}	4-4-4	Set 8 " " " 3071-[illegible]	strong
0 56 W	+65 07	0-1	5.8	B_{3ne}	4-4-4	Set 2-, [illegible]. Hδ-Pe 3000-3015	Qual
1 11	"	"			4-4-4	Set 5 " 3017-[illegible]41	Log
1 40	"	"			4-4-4	Set 9 " 3043-3097	strong
3:07 W	+[illegible]38	0	8.1	B_{5Ie}	4-4-4	Set 2 " 3101-3194	poor
					15/10	Set 9	(guide)

3 PiHi + 8

	mc	sc	MTW	STW	S	SW	ME
Aug. 5	+10.2	-57.2	-9.1	-25.2	-53.6	-47.3	-1.8

Date Tues Aug 5-6/58 Observer Hd - Hz Julian Day 2436421

⊙ 132 54 54.2 3448.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
24332	HD172028	18 32.8	-0 29	I-25	E103a-O	008	27.2	20 23	22 19	1
24333	HD186182	19 37.8	+15 02	"	"	"	27.1	22 25	00 25	2
24334	HD195407	20 26.0	36 39	"	"	"	27.3	0037	0255	3
24335	" 9670	01 29.7	+00 26	"	"	"	27.3	0315	0349	4
	[illegible]	[illegible]	[illegible]							

Dome Temp. 80

Focus 15.60

Dome Temp.

Transparency Conditions Very poor, really. 208

Ending Time E.S.T.	Pl.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 19	1	W 21m	-0 26	1	8.1	B3	4-4-4	Set 2. OB Radcliffe Seen 3 start 3230 end 3381 } rotary fails at times	good
2 25	2	12 NW	+15 09	1-2	8.0	B5	4-4-4	" 3 OB " clouds at times seen 3 start 3384 end 3506 ①	good
2 55	3	30 NW	47 53	0-1	7-7	B3e	4-4-4	" 5 Se Shell 3512 3606	good
3	4	DHE	+00 44	0-1	7-1/2	F8V	4-8	" 2 Se thv 3611 3672	weak
							15/10	" 8 OBHO Clouds.	

10.H in fig.

① Estimated counter missed 1 in 3 or 4

	mc	sc	NW	STW	S	SW	mc
Hg. 8	+9.0	-38.9	-41.1	-1.0	-51.4	-45.7	-2.2

209

Date Fri-Sat, Aug. 8/9, 1958 **Observer** ZK - Li **Julian Day** 2436424

⊙ 135 47 24.0 3452.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24336	HD 175544	18 50.7	+0 08	I-25	E103a-O	Set .002	+23.0	20 32	22 12	
24337	BD +8° 4057	19 12.0	+10 49	"	"	"	22.6	22 16	03h 16m	
24338	HD 215886 **	22h 43.3	−4° 45′	"	"	"	22.9	00h 26m	01h 20m	
24339	P.U.C. 402 HD 223767 *	23h 45.0	+61° 39	"	"	"	22.8	01h 36m	03h 11m	
522-74*	5 Cas	00h 31.7 (1900.0)	+53° 41′ (1900.0)	Hx X2		Set 20	5/2	03h 50m		
523-74*	5 Cas	00h 42.7 (1900.0)	+48° 04′ (1900.0)	"		1	5/4		04h 19m	

* HD 223767 BD +61° 2351 23 47.4 +61° 19′

** HD 215886 BD −5° 5866 22h 43.3 −5° 06′

Dome Temp. 68°F

Focus 15·52

Dome Temp.

Transparency Conditions Good

Exposure Meter inoperative

Sat Aug 9 Le
150 shown M13

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12	0 08 (W)	0 13	0	7.1	B5	4-4-4	set 2 Radcliffe ?rc	fair
	01h 52m W	10 54	0	8.1	B4	4-4-4	set 2 "	l weak
	00h 29m E	4° 47′	0	7.11	G5 II	4-4-4	Set 2 Se HV	too weak
	0h 12m E	+61° 38′	0	8.2	B3e	4-4-	Set 2 Le Programme - Hd	Wrong star
	0 0h 05m W	+53° 38′	6″	3.72	B2 II	30″	4540-4260, dif 0, 1 Sec, 2 min	
	0 0h 26m W	+48° 04	6	4.70	B2 II	30″	4540-4260, " " "	
							4 PH	
				7.3	F0			
				8.3	K0			

211

Date Sun.-Mon. 10-11, 1958 Observer Li Bai - HS Julian Day 2436426

⊙ 137 42 30.6 3455.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Pl.
24340	HDR0587	19h 12.0	+10 49	I-25	E103-0-0	set .007	25.0	21 37	37	
24341	" 197434	20 32.6	53 51	"	"	"	24.8	00 44	02 41	
24342	" 1225095 MWC 407	23 52.3	55 03	"	"	"	"	02 52	04 04	
	Flood Lt.		073.							

Dome Temp. 73°F

Focus 15.57

Dome Temp.

Transparency Conditions Clear

212

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	1 2 - W	+10 54	0-1	8.1	B4	4-4-4	Set 2 OB Radcliffe	good
	303W	+10 41	0	7.9	B5pe	4-4-4	" 5 Se Shell *	fine
	104W	55 19	0	7.6	B1e	4-4-4	" 2 HD Be faint shell	good (guiding)
						15/10	" 8	OK
							I.R. H. in fog.	
							EX. MTR. does not work until further notice.	

213

Date Mar Tues Aug 1/2, 38 **Observer** Li - Mai **Julian Day** 2436427

⊙ 138 40 05.9 3456.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.B
24343	HD 172028	$18^h\ 32.^m8$	$-00^\circ\ 29'$	I-25	103a-O	Set .008	26.9 C	$20^h\ 28^m$	22 39	4
24344	HD 186182	$19^h\ 37.^m8$	$+15^\circ\ 02'$	"	"	"	26.7c	$22^h\ 50^m$	01 00	1
24345	HO211476 Rom 57c	$22^h\ 12.^m3$	$+12^\circ\ 24'$	"	"	"	26.6C	$01^h\ 09^m$	02 23	2
24346	HO8262; Rom 32	$01^h\ 16.^m9$	$+18^\circ\ 10'$	"	"	"	26.6C	$02^h\ 32^m$	03 44	3
24347	HO14214; Rom 51	$02^h\ 12.^m8$	$+01^\circ\ 17'$	"	"	"	26.6C	$03^h\ 53^m$	$04^h\ 13^m$	4
24348	HO6763; Rom 34	$01^h\ 03.^m2$	$+05^\circ\ 07'$	"	"	"	26.6C	$04^h\ 23^m$	04 37	1
	Focus Test		OTB							

Dome Temp. 77°F
Focus 15.60
Dome Temp. 69°F

Transparency Conditions clear - clouds in S. 22:15 E.S.T.
Not good enough for phot
seeing variable.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 39	1h 06m W	-00° 26'	0-1	8.1	B3	4-4-4	Set 2	OB Radcliffe clouds 22:13	l weak
1 [illegible]	52m 23m W	+15° 10'	0-1	8.0	B5	4-4-4	Set 2	" "	l weak (guiding)
2 22	51m 11m W	+12° 41'	0-1	7.63	G_2 V	4-4-4	Set 2	Same field as for 7940 Se. H.V.	l strong
3 4- 3	0h 32 E	+18° 26'	0	7.58	G_3 V	4-4-4	Set 2	Se.-H.V.	l strong
[illegible]	0h 59 E	+01° 32'	0	6.17	F_9 V	4-4-4	Set 2	Se - H.V.	Good
4 37	0 35W	+05 26'	0	5.85	F_2 V	4-4-	Set 2	Se - H.V.	Good
						15/10	Set 8		
							3 P. H. in Orig + 4 plates.	

	mG	sG	mTW	sTW	S	sW	mE
Aug. 13	+7.5	-58.1	+4.1	+9.9	-58.9	+3.2	+1.2

215

Date Wed - Thu Aug 13/14, 1958 Observer DA - HS Julian Day 2436429

⊙ 140 35 20.6 3459.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
24349	HD 180587	19h 12.0	+10° 49'	I-25	E103a0	set .008	27.3c	20 35	00 03	2
24350	HD 9670	01 29.7	+00 26	"	"	"	26.3	01 38	02 34	3
24351	HD - 12302 MWC 23	01 55.6	59 12	"	"	"	26.7	03 08	04 28	4

from 7-st 07B

Dome Temp. 75°F

Focus 15.60

Dome Temp.

Transparency Conditions Clear

216

Clouds 11:10 01:30

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
01	02 00W	+10°54'	0	8.1	B4	4-4-4	set 5	on Radcliffe	Weak
								fast moving cirrus starting around 2h 25	
23	:147E	+0042	.0	7.42	F8V	4-4-4	" 5	Se Hv Sel. 2 4648-4669 (21)	good
31	:023E	59 27	0-1	8.2	B3e	4-4-4	" 5	H1Be " 2 4677-4694 (17)	good (guiding)
						15/10	" 9		
								H.P.H. in frig.	
								Ex Mtr. seems O.K.	

217

Date Thurs - Fri 14/15 Aug '58 Observer — Li Julian Day 2436430.5

⊙ 141 32 59.9 3660.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
24352	ϕ Per	1h 37m.4	+50° 11'	I-25	E-103a-O	Set 008	25.6°C	03h 56m	04 01	4	24
24353	ϕ Per	"	"	"	"	"	25.6°C	04h 02m	04 06	4	25

Dome Temp.....

Focus 15.58

Dome Temp. 69°

Transparency Conditions clouds until 03 hrs E.S.T. 2/18

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00° 24"E	+50° 28'	0	4.2	BOne	4-	Set 2 Se Shell * time 2 4804-4821	strong
00h 19"E	+50° 28'	0	"	"	4-4-4	Set 8 Se Shell * time 2 4825-4842	
						3 plate holders	
						nc sc mtw stw s sw me	
					Aug. 15	+6.4 +5.2 -7.3 +0.3 -0.3 +4.4 -3.2	

219

Date Fri-Sat Aug 15/16 Observer Sc – Li Julian Day 2436431

⊙ 142 30 40.5 .3460.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
622-74	HD 120315	13h 43.6	+49 49	5200	3200	20	4/4	21h 05		
623-74	HD 139006 (R CrB)	15h 30.5	+27 03	"	"	"	4/5	21h 31m		
624-74	141527 (R Cor Bor)	15h 44.5	+28 08	"	"	"	6/4	21h 56m		
625-74	"	"	"	"	"	"	"	22h 14m		
626-74	HD 139006 (R CrB)	15h 30.5	+27° 03'	"	"	"	4/5	22h 38m		
627-74	HD 194093 (χ Cyg)	20h 18.6	+39° 56'	"	"	"	4/6-5/4			
	HD 199345 (α Cyg)	20h 38.0	+44° 55'	"	"	"				
24354	HD 205060 (N.W.C. 371)	21h 27.7	+42° 16'	I-25	E-103a-O	Set .008	20.1C	(STARS) 00h 46m	01h 52m	2
24355	HD 206773 (N.W.C. 376)	21h 39.3	+57° 17'	"	"	"	20.0C	(STARS) 02h 02'		3
24356	4 Per	01h 37.9	+50° 11'	"	"	"	20.0C	03 40	03 45	4
24357	"	" "	" "	"	"	"	"	03 47	03 53	4
24358	"	" "	" "	"	"	"	"	03 55	03 59	4
24359	4 Per	03h 29.4	+47° 51'	"	"	"	20.0C	04h 21	04h 26	1
24360	"	" "	" "	"	"	"	"	04m 31	04h 36m	1

Dome Temp. 62 °F
Focus 15.49
Dome Temp. 60 °F
incl tracing

Transparency Conditions Very Good - clouds at 23h 22m E.S.T. clearing later (~ 00h 5 E.S.T.)

Ending Time E.S.T.	Hour Angle E or W	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	37m W	+49° 30	1.5"	1.66	B3V	30"	4 A/sec Se - Students	
	16m W	+26° 52'	5"	2.2	A0 5	"	" UV at 4/6 "	
	27m W	+28° 17'	5"	5.8(Vis)	F8Ib	"	"	
	45m W	"	5"	"	"	"	"	
	24m W	+26° 52'	10"	2.2	A0 5	"	" UV at 4/6	
		+40° 08	10"	2.2	F8Ib	"	"	
				1.35	A2Ia	"	" clouded out	
	19m W	+42° 29'	0	7.1	B5(n)e	4-4-4	Set 2 Be Programme - Hd "	5335 - 5348 slow
	30m W	+57° 26	0	7.0	B0ne	4-4-4	Set 2, " " "	5354 - 5366 slow
		+50° 28'	0	4.2	B0e	4-4-4	Set 2 Se Shell *	5 slow and 1.5 slow and 1 cond fine
		" "	0	"	"	4-4-4	Set 5 "	
	20h 17m E	" "	0	"	"	4-4-4	Set 8 "	
		3 p.H. + 8					{ "spare" counter does not always count i.e. went from 52 to 53½	
		48° 02'	0	4.3	B5e	4-4-4	Set 2 Se Shell *	
	21h 44m E	" "	0	"	"	4-4-4	Set 5 Se Shell *	

221

Date Sat-Sun Aug 16-17, 1958 Observer Dq - Cg. Julian Day 2436432

⊙ 143 28 22.3 3462.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24361	HD 182807	19h 21.3	+24° 44'	I-25	E103-0	.005	+22°2	22h 44m	23h 32	2
24362	HD 215812	22 42.7	− 4° 45'	"	"	"	+22°3	2352	0120	2
24363	HD 219175	23 08.8	− 9 28	"	"	"	21.9°	0132	0238	2
~~24364~~	HD 6763	0103.2	+ 5 07	"	"	"				
24363	Focus Test		ET 13							1

Dome Temp. 61°F

Focus 15.52

Dome Temp.

Transparency Conditions Clear

22 Ce

Dq, 9g, ch showed the Ring Nebula to 160 visitors and demonstrated the telescope

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	01h 32m W	+24° 51'	0	6.71	F0 V	4-4-4	Set 2. Se. HV	Strong
	0 03m E	−04 38	0	7.11	G5 V	4-4-4	Set 2 " "	little
	03m W	−09 11	0	8.12	F9 V	4-4-4	Set 5. " " for 12" camera work.	
			0	5.85	F2 V		Too Cloudy.	
						15/10"	Set 9.	

Focus test superimposed on spectrum !!

Experienced counter misses a few counts.?

Clouds overhead and to the N.E. - 2:30 EST

4 P.H. + 4.

223

Date Sun/Mon Aug 17-18/58 Observer L-H Julian Day 2436433

⊙ 144 26 05'.3 3464.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24364	HD. 168957	18 17.3	25 01	I-25	E-103AO	scr 068	21.0	20 30	21 42	
24365	" 180398	19 11.3	12 56	"	"	"	20.8	21 44	23 24	2
24365F	" 195407 (Foc -) -t	20 26.0	36 39 C B	"	"	"	20.8	23 32		3

Dome Temp. +65°F

Focus 15.52

Dome Temp.

Transparency Conditions Good

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 42	0 48W	25 01	0	6.9	B5e	4-4	Set 5 Be Prog Seno 2 5561 – 77	Stringy
23 24	1 35W	13 02	0	7.7	B3ne	~~4-4~~	" 5 " " 78-	fine
		36 51	0-1	7.7	B3e	4-	" 5 " " Solid Cloud.	Wisps
						15/10	" 9	OK

1 PH in fog.
Last CS. 1 D.+ 0100 EST

225

Date Mon-Tue Aug 18/19, 1958 Observer Li R.K. – Cg. Julian Day 2436434

⊙ 145° 23 49.4 3460.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24366	HD 174896	18 47.7	-10 21	D-25	E103-aO	.008	17.0	20 12	21h 52m	4
24367	MWC 320	19 41.3	+5 44	"	"	"	"	21 57	0021	1
24368	HD 195407 MWC 346	20 36.0	+36 39	"	"	"	19.0	00 37	205	2
"	HD 223501 MWC 402	23 45.5	+61 39	"	"	"	"			
24369	HD 9105 MWC 7.5	01 24.6	+62 51	"	"	"	18.6	0317	401	3
24370	HD 6763	01 03.2	+05 07	"	"	"	18.6	416	436	4
	Focus Test — ET. R.									

Dome Temp. 64°

Focus 15.7

Dome Temp. 56° F

Transparency Conditions Good

225

Li's help is being appreciated while taking photographs of Delta I + II - Ek.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0h30mW	-10 15	0	8.1	B3e	4-4-4	set 2 Re-focus	5910 - 6060 Sens. 3 fine
	2h 11mW	+5 54	0	6.5	B5ne	4-4-4	set 2 - " -	6065 - 6223 Sens 3 (fine)
205	3h 07mW	+36 51	0	7.7	B3e	4-4-4	set 3 "	Sens 3. 6249 - 6146 Sens 2 6393 - 205 fine
			0-1	8.2	B3e	-	Set 3 " (slightly)	
4½	0 02W	6307	0	7.5	cB0e	4-4-4	Set 3 "	532 - 317 1st time 672 - 401 Sens 3 705 - 419 726 - 436 Weak, windy
4¾	101W	+524	0	5.85	F2V	4-4-4	Set 3 Set Hv.	strong
						15/10	Set 9	OK

1 PM + 11

	mc	sc	mTw	sTw	s	sw	mE
Aug. 19	+4.9	-0.2	-31.3	-27.5	-1.6	-1.5	+3.3

227 Tuc/Hod Li 8h

Date 19/20th August 1958 Observer Se - Mzai Julian Day 2436435

⊙ 146 21 34.6 3466.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
		1960								
~~628-75~~	~~67 Oph~~ M.W.C. 310	~~17h58.6~~	~~+02°56~~	~~Hβ, Hγ, Hδ~~		20		20hrs		
24371	HD177648 M.W.C. 331	19h00.5	+23° 11	I-25	E103-a-0	.008	+23.0	21h 14	21h55	
24372	HD192044 M.W.C. 332	20h07.8	+26° 11	"	"	"	+23.0	22h11	22h22	
24373	HD192445 M.W.C. 361	20h01.8	+26°02	"	"	"	+23.0	22h32	23h 15	
24374	HD200775 M.W.C. 366	21 00.4	+67° 47	"	"	"	22.°9	23h 58m	01h 16	
24375	HD203374	21 16.7	+61° 25	"	"	"	22.°9	01h 35m	02h 10	
24376	HD101452 Hom 45	01 34.1	+66 25	"	"	"	22.°8	02h 23	04 20	
	Focus Test		OTB							

Dome Temp.

Focus 15.53

Dome Temp. 61°F.

Transparency Conditions

SPECTROPHOTOMETER ON BLINK
Plunger not Drawing + and diaphragm into eyepiece view.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS		Quality
		~~+02° 55~~		~~4.00~~	~~B5 V~~	~~30~~	~~2"/min~~ ~~A/sec~~ MR		
	2h 26 W	+23° 16	1	7.5	B3e	4-4-4	set 8	Be	Sense 2 .779 6616 Fine
	1h 14 E	+25 22	1	5.9	B8ne	4-4-4	set 2	"	Sense 2 6843 (Fine scale)
	1h 37 W	+36° 12	1	7.1	B2ne	4-4-4	set 8	"	Sense 2 6849 6876 fine
	1h 49 W	+67° 59	0-1	7.2	B5e	4-4-4	set 2	"	Sense 2 6874 6891 fine (grainy)
	2h 26 W	+61° 41	0	6.6	B2ne	4-4-4	set 2	"	Sense 2 [illegible] (Fine)
	0h 17 W	+66° 49	1	8.34	G5 V	4-4 15/10	set 2 set 8. 2 P.H. +4	Se-H.V.	Sense 2 [illegible] Fine
									Had trouble at sens 2 (room too warm) O.K.

04:18 E.S.T.
Wide spread cloud
04:20 E.S.T.
Clouded out.
Haze

Date Thu-Fri Aug 21/22 Observer Se-Li Julian Day 2436437

⊙ 148 17 08.2 3468.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
24377	HD 171012	18h 27.3	−18° 26	I-25	E	set .008	+22	20h 30	21 : 40	
24378	1 Del	20 25.5	+16° 34	"	"	"	+22.0	21 : 55	22 : 37	
24379	HD 192930	20 44.6	+15° 33	"	"	"	+22.0	22 : 36	00 : 16	
24380	NWC 347 HD 195572	20 27.2	+43° 59'	"	"	"	21.8	00h 31m	01h 34m	3
24381	NWC 352 HD 198183	20 43.5	+36° 07'	"	"	"	21.8	01h 45	01h 49m	4
24382	NWC 352 HD 198478	20 45.5	+45° 45'	"	"	"	21.9	01h 58m	02h 05m	1
24383	NWC 360 HD 200310	20h 57.6m	+45° 46'	"	"	"	21.9	02h 14m	02h 24m	1
24384	NWC 13 HD 9105	1h 24.6m	+62° 51'	"	"	"	21.9	02h 44m	03h 50m	2
24385	Pleiades HD 23862	3h 43.3	+23° 31'	"	"	"	21.9	04 04	04h 14m	3
24386	ψ Per	3h 29.4	+47° 51'	"	"	"	21.9	04 23	04 27	4
24387	HD 19378	3h 01.6	+49° 14'	"	"	"	21.9	04 35	04 39	1
	focus test									

Dome Temp. +68°F
Focus 15.52
Dome Temp. 59°F

Transparency Conditions Poor
Extinction ~ 1 mag
very bright aurora

230

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS		Quality
	01h 37m W (calculated)	18° 24' S	0	7.0	B0e	4-4-4	set 2 OB	Radcliffe : Haze	7250 7261	
	1h 18m E	+10° 45'	0	5.9	A0e	4-4-4	set 2	Se - Shell	7266 7283	
	2h +3m W	+15° 44'	0	7.3	A2e	4-4-4	Set 8	Se - Shell	7290 - 7307	
	2h 47m W	+44° 11'	0-1	7.2	B1.5e	4-4-4	Set 2	Be Programme	7308 - 7325 sens 2 1 count sens 1	
	2h 41m W	+36° 20'	0-1	4.5	B6e	4-4-4	Set 2	" "	1 count sens 1	
	3h 00m W	+45° 58'	1	4.9	B2.5e$_x$	4-4-4	Set 2	" "	1 count sens 1	
	3h 07m W	+46° 00'	0-1	5.2	B3ne	4-4-4	Set 8	" "	1 count sens 1	
	0h 04m W	+63° 08'	0-1	7.5	cB(5)e	4-4-4	Set 2	" "	7346 - 7363 sens 2 1 count sens 1	
	1h 50m E	+24° 00'	0-1	5.2	B8e	4-4-4	Set 2	Se Shell ?	1 count sens 1	
	1h 23m E	+48° 02'	0-1	4.3	B5e	4-4-4	Set 2	"	1 count sens 1	
	0h 49m E	+49° 26'	0-1	4.64	GOII	4-4-4 15/15	Set 2	Se HV	1 count sens 1	
					2 ph	+ 4				

231

Date Tu Sat Aug 22/23, 1953 Observer [illegible] – L Julian Day 2436438
⊙ 149 14 56.7 3469.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.P.
24388	+42 18058? MWC 350	19 12.0	+10 49	I-25	E103-a-O	32 '003	+20.0	20 16	22 36	2
24389	HD 196712 MWC 336	20 34.0	-2 46	"	"	"	"	22 48	23 12	3
24390	+ID 19 3009 MWC 402	20 12.9	+32 04	"	"	"	19.6	23 30	00 20	4
24391	HD 223501 MWC 29	23 45.0	+61 39	"	"	"	19.4	00 48	02 46	1
24392	HD 13661	02 08.1	+54 04	"	-	"	19.3	02 55	04 45	2
	Focus Test				O.T.B.					

Dome Temp. 49

Focus 1549

Dome Temp. 4

Transparency Conditions Good

232

nding Time E.S.T.	Pl	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
i 3		1 08W	+10 56	0	8.1	B4	4-4-4	Del 2 Kodak[illegible] Subst 3 7444 (not 7550 equally separated)	fair
1		0 22W	-02 36	0	6.3	B9e	4-4-4	2 Be prog " " Subs 2	fair
00 20		1 50W	32 15	0	7.0	B0ne	4-4-4	2 " " " "	Extinct
02 46		0 45W	61 58	0	8.2	B3e	4-4-4	" 5 " Clouds 84	l.
04 45		0 20W	54 17	0-1	8.6	B3ne	4-4-4 15/10	" 3 "	l. cl.

1 P.H. loaded
+8

Sat. Aug. 23 - Dq, Li, Mai demonstrated
Telescope showed M92 (in Hercules)
to 170 (APPROX.) visitors.
Very hazy & seeing variable. Later clouds &
bright aurora.

	mc	sc	mtw	s	sw	me
Aug. 25	+2.2	-5.9	+7.8	-5.4	-12.7	+1.9

233

(42)

Date Mon-Tue Aug 25/26, 1958 Observer BK — L Julian Day 2436441
0152 08 29.3 3473.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hor. Angle Ind
24393	HD 188566	19 50.7	+25 01	1.25	E103-aD	slit .008	18.0	20 20.	22 50	3	
24394	HD 201365	21 10.2	+27 45	"	"	"	18.0	23 00	01 20	4	2.04
24395	" 211476	22 12.3	+12 24	"	"	"	18.0	01 42	02 52	1	1.36
	Focus Test				O.T.B.						

Dome Temp. 56°

Transparency Conditions Fair

234

Focus 15.46

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0.55W	25 42	0	5	K2	4-4-4	set 2 AG frog 4 start 7860 5 8010	fair
2.04W	27 57	0	9	K0	4-4-4	" " 8015 8165	fair
2.36W	12 42	1	7.63	G2V	4-4-4 15/10	Se H.V. clouds while setting 8175 186 Clouds star gone at 0252 set 2	fair cirrus

21 PHs loaded + 4

235

Date Tue Wed Aug 26/27 Observer Sc - Li Julian Day 2436442

⊙ 153 06 22.8 3474.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
24396	HD 182293	19h 18.9	+20 05	I-25	E 103a0	Set .008	+19.5	21:00	22.58	2
	HD 26									
628-75	HD 218440	(1960) 23h 05.5	(1960) +59° 32'	Hr Y	2	Set .20	6/3	00h 18m		
629-75	NR Cas	(1960) 23h 28.0	(1960) +58° 30'	Hr Y	2	"	5/5	3h 39m		
630-75	L And	(1960) 23h 36.1	(1960) +43° 03'	"	"	"	5/4	00h 59m		
631-75	E And	(1960) 00h 15.0	(1960) +38° 28'	"	"	"	5/5	00h 20m		
632-75	S Cas	(1960) 00h 34.7	(1960) +53° 41'	"	"	"	5/2	01h 43m		
633-75	C Cas	(1960) 00h 42.4	(1960) +48° 09'	"	"	"	5/4	01h 57m		
	MWC 13					Set .006				
24397	HD 9103	01h 29.6	+62° 51'	I-25	E-103a0	"	+19.4	02h 28m	03h 15m	3
24398	MWC 49 HD 15472 Plaume	02h 29.9	+70° 30'	"	"	"	+19.5	03h 48m	04h 42m	+
24399	Focus Test	03h 43.3	+33° 51'	"	"	"	+19.5	04h 50m	04h 54m	1

Dome Temp. +62° F
Focus 15.48
Dome Temp. +61° F

Transparency Conditions Fair – aurora after ~2 AM E.S.T. 2 35
until dawn

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:58	2h 37m W	+20° 11′	1	8.29	K3III	4-4-4	set 2 Se-GHV Sens 3 8217 8367	ℓ streak
							set 8 1 count/10 min - sens 3	
	(-ART) 10h 46m E	+59° 29′	4″	6.28	B2 II	30″	4540-4235, list B, 1 Å/sec, 2″/min	
	(-ART) 10h 47m E	+58° 18′	4″	4.9	B3 II	30″	4540-4260, ″, ″, ″	
	(-ART) 10h 35m E	+43° 03′	6″	4.28	B8 I	30″	4540-4260, list D, ″, ″	
	(-ART) 10h 53m E	+38° 26′	5″	4.44	A2 II	30″	4540-4251, ″, ″, ″	
	0h 53m E	+53° 41′	4″	3.72	B2 II	30″	4540-4259, ″, ″, ″	
	0h 43m E		5″	4.70	B2 II	30″	4540-4260, ″, ″, ″ light clouds in sky	
	10h 00m E	+63° 07′	2	7.5	cB(5)e	4-4-4	Set 2, Be Programme 8419-8431 Sens 2	good
	10h 15m W	+70° 45′	2-3	8.0	B4ne	4-4-4	Set 2, ″ ″ 8433-8450 Sens 2	ℓ clouds
	00 50m E	+23° 59′	3	5.2	B8e	4-4-4	Set 2, Se Shell #'s 1 count sens 1	fair
						15/10	Set 8	
			1	plate	holder	loaded		
							min mc	
							+3.4 +4.9	

237

Date Wed Aug 27-28/58 Observer Hd — Julian Day 2436443

⊙ 154 04 17.6 3476.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24400	HD 164284 MWC 278	17 55.3	+4 22	I-25	E103a0	008	+22.1	19 51	19 58	2
24401	HD 175863 MWC 308	18 52.3	59 53	"	"	"	22.1	21 12	22 10	2
24402	HD 194335 MWC 349	20 20.0	37 10	"	"	"	22.1	22 18	22 37	4
24403	HD 199181	20 50.4	54 08	"	"	"	22.0	22 47	00 04	1
24404	HD [illegible] MWC [illegible]	1h 24.6	+62° 51	"	"	"	22.0	00 23	01 32	2
24405	HD [illegible] MWC [illegible]	1h 34.6	+61° 28'	"	"	"	21.9	01 41	02 36	2
24406	HD 13982 MWC 76	2h 46.1	+62° 11'	"	"	"	22.1	02 56	05 00	4

Dome Temp.....

Focus 15.61 − .09 = 15.52

Dome Temp.....° F

Transparency Conditions Good

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	√ 4m	+4 20	0	4.8	B5ne	6-6	Be Prog set 2	Count 8463-4 a/ zero 1	fine
	√ 1 22	+59 57	0	6.9	B4e	4-4-4	" " set 8	start 8469 zero 2 end 8484	fine
	W 20m	+37 20	0	5.7	B3ne	4-4	" " set 2	start 8486 zero 2 end 8503	cloudy
	√ 23	54 20	0	5.08	Ko III	4-4-4	Se GHV set 2	start 8505 zero 2 end 8525	fine
	5T	+68° 08'	0	7.5	B3(5)e	4-4-4	Be Program set 2	start 8526 zero 2 end 8543	fine
	46°	+41° 34	0	7.2	B5ne	4-4-4	" set 8	start 8546 zero 2 end 8563	fine
	41°	+42° 21'	0	8.1	B3e	4-4-4	" set 2	start 8565 zero 2 end 8580	good (guiding) OK
						15/10	[illegible] set 8	[illegible]
							2PH = 6	

Elec. guide motor button sticking. Called Mr who asked it. Very slow response.

P.H. #3 is not right. Has it been dropped? Do not use until checked by L. (P.H. = the box)

Date Thurs Aug 28-29/58 Observer Se — H5 Julian Day 2436 444
⊙155 02 14.0 3477.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
24407	HD 199191	20 50.4	+54 08	I-25	E103a0	set .008	+23°C	23h:20	01 12		
24408	" 6833	01 03.9	54 13	"	"	"	+21°	01 33	02 13	1	
24409	" 9670	01 29.7	+00 26	"	"	"	20.0	02 49	04 17		
	Moon's Tail		0715								

240

Dome Temp. +68° F

Transparency Conditions Par

Focus 15.53

Dome Temp.

0400 Spect. Temp control not [illegible]

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2	2.30 W	+54° 21	0	8.08	K III	4-4-4	Set 2	Se-GHV	8639 #3 8728
3	0.44 E	54 31	1-2	7.91	K, III	4-4-(4)	" 2	" " Passing cloud	8800 #2 8818
17	2.06 W	+00 43	0-2	7.42	F8 V	4-4-4	" 2	Se-Hv	8822 #2 8837
						15/10	" 8		
								1 P.H. ff intvls	
								E. Mtn. O.K. Night would have been hopeless without it.	
							me	sc	MTW	STW	S	SW	MG
						Avg. 29	+2.4	-8.4	-21.3	-1" 10.4	-6.3	-23.5	+0.7

241

Date Fri/Sat 29-30 Aug. 1958 Observer Mai - Li Julian Day 2436448 −
⊙ 156 00 11.9 3479.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24410	HD 170737 Ron-448	18 25.9	+26° 36′	I-25	E103a-O	Set .008	25.6	20h 20	00h 11m	−
24411	HD 6833 From T5	01h 03.9 (1960)	+54° 13′ (1960)	I-25	E103a-O	.008	25.7	0h 05	03h 01m	
634-76	HD 218440	23h 05.5	+57° 32′	H&T X	2	Set .020	6/4	00 38		
24412	HD 8262 Focus Test	01h 16.9	+18° 16′	I-25	E103-a-O	.008	25.6	03h 12m	05h 00m	2

Dome Temp. 77°F

Focus 15.58

Dome Temp.

Transparency Conditions very Hazy.
Cloud in west & NW
9:40 E.S.T. Cloud moving Southward
Clouds passed by 10:45 E.S.T.
03:20 HAZE TURNS INTO MANY SMALL FAST MOVING CLOUDS

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10h 11m	3h 57m W	+26° 28'	1-2	8.0 ~~8.08~~	G8 III-IV ~~K5 III~~	4-4-4	Set 2 Se.-GHV 91?? Clouds cleared out 8.27	
	0h 08m W (1947)	+54° 30'	1	7.91	K, III	4-4-4	Set 2 Se.-GHV. 8917- Sens 2 8934	
	0h 18m E		4"	6.28	B2 V	30"	45-10-, Set B, 1A/sec, 2"/min 8995-00.4 two clouds @ time Sens 2	very steady dark-sided mirrored up I
	1h 5m W	+18° 26'	1	7.58	G3 V	4-4-4	Set 2 Se-HV	
						15/10	Set 8	

2 P.H.

Exposure meter seems to "fire" (1 count) at point on the integrator scale somewhat greater than 10 Li

Saturday 150 visitors

Dg, Mai & Sh drawed M92
Li Corrected!

22.30 hours

	mc	sc	mTW	sTW	s	sw	mE
Sept. 2	-0.4	-12.7	-22.8	-12.7	-3.8	-34.8	-3.8

243

Date Tues/Wed 2/3 Sept 1958 Observer L & SH Julian Day

Plate No.	Object	R.A. 1960	Declination 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
			1960			Set				
634 -76	67 Oph	$17^h 58.6$	+02°56	HB(HY	HS)x2	.020	5/5-4	$19^h 40^m$		
635 -76	γ Lyr	18 57.4	+32° 38	HY	x2	"	5/2	$20^h 25^m$		
636 -76	ξ Aqr	19 34.6	-01 23	HY	x2	"	5/4	$20^h 42^m$		
637 -76	δ Cyg	$19^h 43.7$	+45 02	HY	x2	"	5/1	$20^h 59^m$		
638 -76	HD 190603	20° 03.1	+32° 06'	HB	x2	"	6/3	$21^h 15^m$		
639 -76	α Del	$20^h 37.4$	+15 47	HY	x2	"	5/3	$21^h 33^m$		
640 -76	β Aql	$20^h 45.3$	-09° 39'	"	"	"	5/4	$21^h 50^m$		
641 -76	π Cyg	$20^h 45.8$	+36° 20'	"	"	"	5/4	$22^h 06^m$		
642 -76	σ Cyg	$21^h 15.9$	+39° 14'	"	"	"	5/4	$22^h 22^m$		
643 -76	α Cyg	$20^h 46.1$	+45° 06'	(HB	HY HC)	x2	4/4-3	$22^h 37^m$		
644 -76	14 Cep	22° 00.7	+57° 48'	HB	x2	"	5/7	$23^h 12^m$		
645 -76	4 Lac	$22^h 22.8$	+49° 14'	"	"	"	5/5	$23^h 27^m$		
646 -76	ξ Peg	$22^h 39.4$	+10° 39'	"	"	"	5/2	$23^h 43^m$		
647 -76	12 Lac	22° 39.7	+40° 01	"	"	"	5/6	00° 37"		
648 -76	HD 218440	$23^h 05.5$	+57 32	HY	x2	"	4/3	00° 51"		

(continued on p. 244)

ome Temp. 67°F

Transparency Conditions Excellent

ocus

ome Temp.

Ending Time E.S.T.	Hour Angle End START	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0h 10m W	+02° 53′	4″	4.00	B5 IV	30″	4760-4760, 4540-4000, Int D, 1A/sec, 2A/min	
	0h 04m E	+32° 37′	10″	3.30	B9 III	30″	4540 - 4250, Int D, " , "	
	0h 24m E	-01° 24′	10″	4.28	B5 III	30″	4540 - 4257 , " , " , "	
	0h 16m E	+45° 02′	12″	2.97	B3.5 III	30″	4540 - 4260 , " , " , "	
	0h 19m E	+32° 04′	8″	5.69	B1.5 Ia	30″	4540 - 4261 , " , " , "	
	0h 35m E	+15° 48′	6″	3.86	B9 V	30″	4540 - 4260 , " , " , "	
	0h 26m E	-9° 39′	6″	3.83	A1 V	30″	4540 - 4259 , " , " , "	
	0h 11m E	+36° 20′	8″	4.47	B5 V	30″	4540 - 4260 , " , " , "	
	0h 25m E	+39° 13′		4.38	B2 Ia	30″	4540 - 4260 , " , " , "	
	0h 27m W	-45° 08′	12″	1.35	A2 Ia	30″	4950-4760-4960, 4540-4260, " , "	
	0h 20m E	+57° 46′	6″	5.50	O9 I	30″	4540 - 4259 , " , " , "	
	0h 26m E	+49° 13′	5″	4.64	O9 Ia	30″	4540 - 4260 , " , " , "	
	0h 15m E	+10° 35′	5″	3.41	B8 I	30″	4540 - 4259 , " , " , "	
	0h 22m W	+39° 38′	5″	5.8	B2 III	30″	4540 - 4250	
	0h 21m E	+39° 10′	5″	6.26	B2 V	30″	4540 - 4260	

(Continued from previous page)

Date 24 Sept '58 Observer SK + Li Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
649-76	AR Cas	23h 28.7	+58° 20'	(Hy X ?)		.020	5/5	00h 51m	
650-76	ι And	23h 36.1	+43° 03'	"	"	"	5/4	01h 08m	
651-76	γ Peg	0h 11.2	+14 58	(Hy×2)		"	5/1	01h 24m	
652-76	θ And	0h 15.0	+38 28	"		"	5/5	01h 40m	
653-76	ς Cas	0h 34.7	+52 41	(Hy×2)		"	5/3	01h 56m	
654-76	ο Cas	0h 42.4	+48 04	"		"	5/5	02h 12m	
655-76	ν And	0h 47.6	+40 52	"		"	5/5	02h 28m	
656-76	β Cas	1h 08.7	-36 56	"		"	5/5	02h 43m	
657-76	ξ Cas	1h 51.5	+63 29	"		"	5/2	03h 02m	
658-76	β Ari	1h 52.4	-20 37	"		"	5/1	03h 22m	
659-76	ε Cet	2h 37.5	+10 10	"		"	5/4	03h 39m	
660-76	35 Ari	2h 41.1	-27 32	"		"	5/5	03h 53m	
661-76	HD 13782	2h 46.6	-56 55	"		"	6/5	04h 13m	

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions Clear

0430 small clouds in west

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0° 07E	+58° 18'	4"	4.9	B3V	30"	4540 - 4260, list D, 1A/sec, 2"/min	
	0° 02W	+43° 01'	5"	4.28	B5V	30"	4540-4260	
	0° 17E	+ 14° 57'	6"	2.87	B2IV	30"	4540-4260	
	0° 06E	- 38° 27'	6"	4.44	A2V	30"	4540-4260	
	0° 09E	+53° 40'	6"	3.72	B2V	30"	4540-4260	
	0° 01E	+48° 03'	5"	4.70	B2V	30"	4540-4259	
	0° 11W	-40° 49'	4"	4.62	B5V	30"	4540-4260	
	0° 04W	-34° 57'	5"	4.52	A7V	30"	4540-4260	
	0° 19E	+69° 27'	6"	4.65	B2V	30"	4540-4258	
	0° 00°	+20° 36'	0"	2.72	A5V	30"	4540-4260	
	0° 02E	-00° 08'	4"	4.04	B8III	30"	4540-4257	
	0° 18E		4"	4.58	B3V	30"	4540-4259	
	0° 05E	+56° 55'	5"	6.53	A0Ia	30"	4540-4260	

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Date Thurs/Fri 4/5 Sept '58 Observer -Mai Julian Day 2436405.

⊙ 161 48 36.3 3490.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24413	HD 217050	22^h 52.7	$+48^\circ$ 09′	I-25	E103a O	.008	21.0c	00h 59m	01 07
	HD 217050	"	"	"	"	"	20.8c	01h 09m	01 15
	HD220300								
	Focus Test		OTG						

Dome Temp. 66°F
Focus 15.50
Dome Temp. 61°F.

Transparency Conditions Some Haze
Cloud in S + SE.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 07	00 50W	+48° 26'	0	5.2	B3ne	4-4-4	SeD2 Se - Shell Star. cloud	Lwink
01 E	00 58W	+48° 26'	0	5.2	"	——	SeD2 Se - " " More cloud	Lwink
							01:30 E.S.T.	
						15/10	SeD5 SKY COMPLETELY OBSCURED	OK
							1 P.H. + 0 (on 12) Closedup at	
							in Frig. 01:50 E.S.T.	
						Sept. 5	MTW ME	
						~~Aug~~	-11.1 +5.3	
						Sept. 9	MC SC MTW STW S SW ME	
							0.0 -17.1 +14.3 +0.7 -10.6 0.0 +9.9	
							Fri/Sat 5/6 Sept. 1957	
							Unsettled weather.	
							Left 10:20 E.S.T.	
							Saturday Sept. 6 - Cloudy. 25 visitors.	
							Bk, Dg showed telescope, lecture on	
							"distances in the Universe"	

249

Date Mon-Tue, Sept 8/9, 1952 Observer Wehlau SH BSK MR - Mai Julian Day 2436455.

⊙ 165 41 31.2 3498.8

Plate No.	Object	R.A. 1900 1960	Declination 1900 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
24414	HD 140728	15 40.2	+52 40	D-25	E103a-D	sel .008	18.5	19 27	19 35	4
								19 36	19 40	4
662 -77	67 Oph	17° 58.6	+02 56	Hβ y	S ×2	.020 (check)	5/5 HA 5/4	20h 00		
663 -77	ζ Her	17 38.3	+36 02		"	"	5/4 Hβ	21h 20		
664 -77	HD 190603	20h 03.1	-32° 06			"	6/3			
665 -77	55 Cyg	20° 47.5	+45° 58			"	5/6			
666 -77	16 Sge	22h 37.3	+18° 51			"		23h 34		
24415	HD 4745	23 13.2	+44° 51'	J-25	E103a-D	.008	17.7°	00h 17m	00 35	1
		"	"	"	"	"	17.9°	00h 36m	00 46	1
667 -77	ξ Cas	0h 39.8	+50° 12	Hγ	×2	.020	5/5	0105		
668 -77	ξ Cas			Hδ	×2	.020	5/5		01h 31m	
669 -77	χ PEG	0h 11.2	+14° 58		"	.020	5/1	01 50		
670 -77	α And	0h 15.0m	+28° 28'		"	.020	5/5	02 11		
671 -77	K Cas	0h 30.7m	+62° 53'		"	.020	5/4		02 38	
672 -77	5 Cas	0h 34.7m	+53° 41		"	.020	5/3	02h 52m		
673 -77	σ Cas	0h 42.4m	+48° 04'		"	.020	5/5	03h 11m		

Dome Temp. 60°

Focus 15.46

Dome Temp. 54°F

Transparency Conditions Good

250 (new dry cell in Strain clockpulse unit but not necessary to make post shutdown)

renewed chart in Brown

Ending Time E.S.T.	Hour Angle End / Start	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							sel 2 } Wallace's Prog. sel 7 }	
	50	52 30	0	5 5	A	12		
		+02 54		6.00	B5IV	30"		
				3.68	B3V	30"		
				5.7	B1.5	30"		
				5.22	B3Ia	30"		
				4.67	OaV	30"		
	00 13W	+45° 15'	0	6.3		4-4-4	Sel 2	
	00 25W	+45° 15'	0	"		—	Sel 8	
	00 40E	+50° 18'		4.85	B2V	30"		
	00 16E	+50° 18'		4.86	B2V	30"		
	0 3W	+14° 57'		2.87	B2IV	30"		
	00 50W	+38° 26'		4.44	A2V	30"		
	01 01W	+62° 43'		4.24	B1Ia	30"		
	1 10W	+53° 39'		3.72	B2V	30"		
	1 22W	+48° 02'		4.70	B2V	30"		

Sens 2 / 4073

Sens 2 9092

251 (cont'd)

Date Tues Sept. 5, 1967 Observer — Mai Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
674-77	δ Cas	01h 23.2m	+60° 02'	H δ	×2	.020	5/1	03h 30m		
675-77	β Ari	01 52.4	+20° 37'	"		.020	5/1	03h 48m		
676-77	δ Cet	02 37.5	+00° 10'	"		.020	5/4	04 12		
677-77	35 Ari	02 41.1	+27° 32	"		.020	5/5	04 24		
678-77	HD 17378	02 46.6	+56 35	"		.020	6/5	04 47	04h 55m	

Dome Temp. 60°F
Focus 15.46
Dome Temp. 54°F

Transparency Conditions

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	1 01W	+60° 00'		Var.	A_5 V	30"		
	0 50W	+20° 36'		2.72	A_5 V	30"		
	0 24W	+00° 09'		4.04	B_2 IV	30"		
	0 37W	+27° 31'		4.58	B_3 V	30"		
	0 54W	+56° 55'		6.53	A_5 Ia	30"	SKY A LITTLE LIGHT AT START.	
	1 01W							
							3 P.H. + 8 in Trig.	
							MC SC S MTW STW SW ME	
						Sept 10	-0.5 -19.0 -11.5 +25.3 +0.1 +5.0 +4.8	

253

Date Thurs - Fri, Sept 11/12, 1958 Observer Hd Wehlau rB — Julian Day 2436458

⊙ 168 36 33.7 350d.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.A.
24416	γ Dra	18 22.2	+71 19	I-25	E103aO	.005	16.1	19 33	19 35	2
	γ Dra	"	"					19 37	19 41	
~~24417~~	~~HD 40428~~	~~15 40.2~~	~~+52 40~~					19 59		3
							reset focus 15.41			
24417	HD 219113 SZ Psc.	23h 08m.3	+02° 08′	I-25	E103aO	set .008	14.3	00 49	00 35	4
	Foc. TB		OTC							

Dome Temp. 54 F.

Transparency Conditions 2nd Half - Intermittent cloud

Focus 15.43

Dome Temp. 49° F.

not phot night

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 35		71 17	0	4.2	Aop	12	set 2 Wehlau pec A star Sens 1, 1 cloud	
19 41	0h 18m W					12	" 8 " 1 1/2 "	
—						4-	" 2 clouds, Sens 2 9118-	
19 [illegible]	23 [illegible]	+02° 25'	0	8.7	G5	4-4-	Set 2 finder field elevation Sens 3 9121 - limit Sens 2 9133	Lweak
19 44						15/10	Set 8 01:05 E.S.T.	OK
							HR.H. +4 STAR GONE; CLOUD ALL OVER SKY. Cleared at 01:40 E.S.T. 02:15 E.S.T. SOME MORE CLOUDS COMING. LITTLE FAINT STARS SHOWING OUT E2 PLT STAR REFERRED AGAIN 02:40 E.S.T. 03:25 E.S.T. HOPELESS.	

	MC	SC	3	MTW	STW	SW	ME
Sept 12	-3.0	-20.6	-12.7	+38.9	+37.1	-6.5	+0.8

255

Date Sun/Mon Sept 14/15-58 Observer Li - H.S Julian Day 2436461

⊙ 171 31 53.8 3570.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24418	HD 191046	20h 02.2m	+35° 57'	I-25	103aO	Set .008	24.8	21:18	22:58	2
	23:01 Reset focus 15.58									
24419	HD 219749	23h 13.2m	+44° 57'	I-25	"	"	26.0	23:30	23:30	1
	HD 219747	23h 13.2m	+44° 57'	I-25	"	"	26.0	23:31	23:45	1
24420	HD 2925	00h 27.4m	-22° 38'	"	"	"		23:57	24:[illegible]	3
	"	"	"	"	"	"	26.2	00 13	01 45	
24421	HD 6497	01 00.9	56 24	"	"	"	26.0	01 58	02 44	4
24422	" 31782	04 53.5	25 47	"	"	"	"	03 06	04 40	
24423	27 Ari.	02 35.4	+17 16	"	"	"	"	04 50	05 20	
	Alm Tot.			09	13.					

Dome Temp. 69°F
Focus 15.53
Dome Temp. ....

Transparency Conditions Good

256

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	2h 10m W	+36° 07'	0-1	8.19	KO III	4-4-4	Set 2 Se GHV 22:47 "slider" not making prop. contact on slid. cover to upper limit. 9173 - 9176 same 2	Good
	0h 29m E	+45° 17	0	6.3	B9 p	4-4-4	Set 2 WW Peculiar A ✱'s 9184 same 2	Strong
	0h 14m E	"	"	"	"	6-6	Set 3 " " 9185 - 9187 same 2	Good
				7.74	KO III	4-	Set 2 GHV - Se 11 images ✱ 9213 - same 3	
	03 1W	+22 57	0	"	"	4-4-4	Set 8 " " 9213 #2	Good
	056W	56 13	0-1	7.61	K2 III	4-4-4	" 2 " " 9230	
	059E	25 52	0	8.09	K0 III	4-4-4	" 2 " " 9232 #2 9250	Clear
	01 1W	+17 30	0	7.13	K0 III	4-4-4	" 2 " " 9255 #2 9272	fine
						15/10	" 2 " " 9275 #2 9284 ✱ Wind 1 last couple hours.	fine
							" 8	OK

Sept 15 p.20.
Se, Sh, Sg - partly cloudy
found M57 and the moon through
the window to 200 aperture.
Th. was very hazy.

* Had to [illegible]

	mc	sc	mTW	sTW	s	sw	mE
Sept. 15	-0.3	-23.4	+7.2	+44.3	-15.0	-14.0	+3.6
19	-1.9	-27.0	+28.2	+64.7	-18.4	-35.3	+1.9
22	-2.3	-30.4	-0.1	+50.3	-20.1	-44.7	-4.3

257

Date Mon Jan 15 58 Sep 22-23 Observer ML – Li Julian Day

Plate No.	Object	R.A. 1900 1950	Declination 1900 1950	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.A.
679-78	67 Oph	17h 58.6m	+02° 56′	Hβ, Hδ+4δ x2		set 20	5/6 5/4	19:47		
680-78	ν Lyr	18 35.6	+38 45	Hδ+Hε, Hβ		"	3/6 3/7	20:44		
681-78	55 Cyg	20 47.5	+45 58	Hβ,		set 10	6/4	21:29		
682-78	HD183143	19 25.7	+18 12	settings		"	6/7 max	22:20		
683-78	10 Lac	22 37.3	+38 51	Hγ3α+Hδ+4δ		"	5/7, 5/6	22:34		
684-78	λ Cyg	20 45 8	+36 20	Hδ x2 +set		set 20	5/5	23:18		
685-78	41 Lac	22 32 6	+49 14	Hδ x2 + set		"	5/5	23:46		
686-78	AR Lac	23h 28.2	+58° 20′	Hδ x2	+5.1	"	5/5	00:34		
687-78	HD19756	00h 2.1	+51° 48′	"	"	"	5/7	01:10		
688-78	HD 5394 αCas	00h 59.3	+60° 30′	"		"	5/1	01h 39m		
689-78	HD 10516 ψ Cas	01h 41.1	+50° 29′	"	+Set	"	5/4	01h 56m		
690-78	HD 11415 ζ Cas	01h 51.5	+63° 28′	"	"	"	5/2	02h 25m		
691-78	16 Tau	03h 42.5	+29° 10′	"	"	"	5/7	03h 03m		
692-78	17 Tau	03h 43.5	+24° 00	"	"	"	5/3	03h 26m		
693-78	18 Tau	03h 42.8	+24° 44	"	"	"	5/7	03h 49m		
				Cire + set						

Dome Temp. 66°F

Transparency Conditions Excellent

Focus.....

Dome Temp.....

Sept 20-21 2/0 visitors shown ring nebula + moon.

Ending Time B.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			very good	4.00	B5 Ia	30"	List A. 4960 – 4760 ; 4540 – 4016	
				0.04	A0 V	"	" A 4537 – 4013 ; 4959 – 4760 [Hδ = 4358 decreasing 4362 increasing]	
				5.22	B3 Ia	"	" A, B 4960 – 4760 ; 4610 – 3914	
				8.3:	B7 Ia	"	fn 4430 B-V = 1.4	
				4.67	O9 V	"	" B 4650 – 3914	
				4.47	B5 V	"	" D 4540 – 4260 ←	
				4.64	B9 Ia	"	" D 4540 – 4234	
	0h 55m W		1"	4.9	B3 V	"	List E, 4540 – 4260 , 1 Rec, 2 min	
	1h 36m W	+51° 47'	3"	5.2	B5 III	"	" , 4540 – 4260 , " , "	
	0h 33m W	+60° 30'	7"	2.0	B0 IIIe	"	" , 4540 – 4260 , " , "	
	0h 09m W	+56° 38'	4"	4.0	B2 Ve	"	" , 4540 – 4260 , " , "	
	0h 22m W	+63° 27'	4"	3.3	B3 p	"	" , 4540 – 4260 , " , "	
	0h 11m E	+38° 10'	3"	5.1	B7 IV	"	List D , 4540 – 4260 , " , "	
	1h 17m E	+33° 58'	5"	3.81	A6 III	"	" , 4540 – 4260 , " , "	
	0h 07m E	+24° 32'	4"	5.63	A5 V	"	" , 4540 – 4255 , " , "	

25q (continued from previous page)

Date Mon/Tues 22/23 Sept Observer - Li Julian Day

Plate No.	Object	R.A. 1900 1960	Declination 1900 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
694-78	19 Tau	03h 42.9m	+24° 21′	HYX	2+Set	.020	5/4	04h 10m		
695-78	M Tau	03h 45.1m	+23° 59′	"	"	"	5/1	04h 31m		
696-78	27 Tau	03h 46.9m	+23° 56′	"		"	5/3	05h 09m		

Dome Temp.....

Focus.....

Dome Temp.....59°F

Transparency Conditions ..... Excellent

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0h 17m W	+24° 19'	4"	4.37	B6V	30"	Int D, 4540-4260, 1A/Sec, 2"/min	
	5h 35m W	+23° 57'	5"	2.96	B7III	30"	" , 4540-4260, " , "	
	11h 13m W	+23° 56'		3.90	B8III	30"	" , 4540-4260 [illegible]; " , "	

Have just put new chart on Brown for last 1½ tracings (i.e. used about 3 ft of it).

vdB.

Date Tues Sep 23-24 /58 Observer Hd Julian Day 2436470

⊙ 180 19 26.4 3525.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24424	HD140728	15 40.2	52 40	I-25	Eo3a O	008	21.2	19 42.	19 50	2
								19 52	19 56	
24425	HD154278	16 59.4	+13°42'	"	"	"	21.5	20 12	20 46	3
24426	HD191046	20 02.8	35 59	"	"	"		21 07	23 13	2
24427	HD219749	23 13.2	44 57	"	"	"	21.2	23 21	23 47	1

Dome Temp.....

Focus 15.50

Dome Temp.....

Transparency Conditions.....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 50		52 30	1	5.5	A0	12	set 2 Wehlau's pec M stars. Exp. note not working	Library is strong
19 56	W 4 05					12	" 8	
20 46	W 3 26	13°37′	1	7-11	K1 III	4+4-4	Set 2 9 H V (Sc)	fine
21 [illegible]	W 3 [illegible]	36°06′	0	8, 19	K0 III	4+4-4	Set 2 " "	
21 47	W 0°24m	45°13′	0	6.3	B9p	4+4-4	" 2 Wehlau's pec M stars Fog + cloud	
							2 PH + 8 in clouds	
							mTw mE	
						Sept 26	-23.2 +9.2	

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Li

Date Sat Sep 27-28/58 Observer Hd. - Li Julian Day 2436474

⊙ 184 14 39.5 3533.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24428	SZ Psc	23 08.3	+2 08	I-25	E103a0	008		~~3 35~~		
							16.0	21 49	00:07	
24429	HD 2925	00h 27.7	+27° 36'	"	"	"	16.2	00:15	01 51	
24430	ε And	00h 33.2	+28° 46'	"	"	"	16.3	01:59	02:15	
24431	HD 6497	01h 00.9	+56° 24	"	"	"	16.2	02.26	04:10	
24432	HD 11636	06h 01.3	+41° 04'	"	"	"	16.4	04:19	05:05	
24433	51 Ori	05h 37.3	+01° 26'	"	"	"	16.2	05:14	05:24	
24434	5 Tau	05h 31.7	+21° 05'	"	"	"	16.3	05:32	05:36	
	Focus test - slide not open at proper time - omit									

Dome Temp. 53°F

Focus 15.42

Dome Temp. 47°F

Transparency Conditions Fair - light wind

200 visitors. Showed M13 and M15 with 74"
RASC showed Sky

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
				8.7	G5	4-	set 2	Telescope	count 9405-	Lovely.
	1h 0-W	+2 25	0			4-4-4	Set 8		count 9411 - 9532	
	1h 29"W	+22° 57	0	7.7	K0III	4-4-4	Set 2	Se-G.H.V.	count 9537 - 9584	Good.
	1h 47"W	+29° 05'	0	5.25	G8III	6-6	Set 2	Se-G.H.V.	1.1 count Send 1 9582 - 9605	
	1h 14"W	+56° 43'	0	7.61	K2III	4-4-4	Set 2	Se-G.H.V.	count 9606 - 9623	fine
	3h 52"E	+41° 03'	0	7.41	K0III	3-5-4	Set 2	Se-G.H.V.	Send 2 1.1 count	fine
	3h 36"E	+01° 36'	0	6.08	K1III	6-6	Set 2	Se-G.H.V.	Send 1 1 count	fine
	0 15"E	-21° 07'	0	3.0	B3e	6-6	Set 2	Se Shell ☆	Send 1	fine
	e=7									
	3Pr. +0 in Dome									
							a few clouds at 2:30 a count 10			
							3:33 found we could still record fr			
							clocks & calculate Saturn - Ceres			
							our "Count" Chart" ending in			

Date Sun Sept 28-29/58 Observer L-HS Julian Day 2436.975.

⊙ 185 13 32.6 3535.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24435	1799 58-9	19 09.5	49 39	I-25	E-103Ao	Set .008	15.3	20 11	20 57	E-W
36		"	"	"	"	"	15.3	20 58	21 46	W-E
24437	I-70 220300	23 17.6	55 49	"	"	"	15.1	21 52	23 14	E-W

Time Temp. 54°F

Focus 15.42

Time Temp.

Transparency Conditions Good

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 57	1 52W	49 47	0-1	7.22	G4	4-44	Set 2 Se Hv N comp.	Stormy
21 46	2 47W	"	0-1	"	"	444	" 8 " " S comp	Stormy
23 14	0 05W	56 04	1	7.8	Ape	444	" 5 Se Shell star, Clouds	fair

0100 Mt. Lt. Lights in Dome. Cloud Dome.

I.R.H. +? in Dome.

	mc	sc	S	mTW	sTW	sw	mc
Sept. 29	-2.5	-34.1	-24.3	+1.5	+7.2	-3.5	+4.1

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Date Mon Tues Sep 29/30 '18 Observer MR – LI Julian Day 2436476

⊙ 186 12 27.7 3537.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24438	HD 9407	01h 53m	+68° 26	3.25	F103a-D	Set .009	14°5	01h 05	01h 31
24439	ζ Per	01h 37m	+51° 11	"	"	"	14°4	01h 39	01h 46

Dome Temp. 55

Focus 15.41

Dome Temp. 55

Transparency Conditions very poor — clouds most of eve. 250
Used clear periods for tests on objective. — MR

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0h 15 W	+62° 42'	2	7.2	56 I	4-4-4	Set 2 See HV 0727-1747 used 'cloud' time	good
	5h 5 W	+55° 25'	3	4.2	Bone	6-6	Set 2 So Stell ✱	good

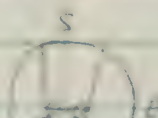
3 ph + 1

2:15 yellow Dull Had to keep around moon to see through the clouds

3:10 Dull nothing but clouds in sky

not reportable

0:51 cld (clouds)



pos. W I count in 12 sec

pos. E I count in 12 sec

Date Wed Oct 1-2/58 Observer Hd – vdB HS Julian Day 2436478

⊙ 188 10 24.8 3541.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24440	HD 175305	18 49.7	74 37	I-25	E103a0	008	12 0	19 13	20 21	1
24441	HD 219113	23 08.3	20 08'	I-25	E103a0	008	11 9	21 26	23 18	2
~~24442~~	~~HD 3286~~	~~0 30.7~~	~~+19 28'~~	~~I-25~~	~~103a0~~	~~008~~	~~11 8~~	~~23 35~~		
24442	HD 16397	02 32.7	+30 24	I-25	E103a0	008	12.0	01 12	02 46	1
24443	" 19:45	03 02.5	+25 58	"	"	"	11.8	02 57	05 29	2
	Moon 7.1 0.28									

ome Temp.....

ocus 15.38

ome Temp.....

Transparency Conditions .....

270

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
2:11	4 52 W	+74° 42'	0	7.95	K0 III-4	4+4+4		ph1 Area 3 count 9772 to 9883	good
2:1	20h 30m W	+2° 26'	0	8.7	G5	4+4+4	Set 2.	ph2 9910 to 0090 weak	
			0	8.64	G2V		Set 2	ph4 Wrong Star Can't find right one.	
4:46	4 037 W.	30 37	00	7.92	G1 V	4-4-4	" 8	Se Hv 0115 0274 #3	l weak
05 27	3 24 E W	26 09	00	8.52	F7 VI	4-4-4	" 2	" 0276 0382 #3	l weak
						15/10	" 8	0500 High Cirrus	

3 P.H. Plates Needed.

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Date Thurs-Fri, October 2/3, 1913 Observer EK - HV Julian Day 2436479.

⊙ 189 09 26.6 3564.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24444	40 10,16 E	2 0 05.7	-25 15	I-25	E103-a-D	slit 100	13 0	21 10	23 56
24445	" 3266	00 30.7	29 28	"	"	"	13·0	00 31	03 07
	Faint	Faint	29 B1						

Dome Temp. 50°F

Transparency Conditions Poor, haze & cloud

Focus 1538

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	4 5W	25 25	1	8.74	Co II	4-11-4	set 2 Se-G HV Seus. 3 417 557	Good
	300W	29 38	0-1	8.64	G_2 V	4-8	" 2 SeH_V #3 0576 0657	weak
						15/10	" 8 0300 Cloud.	Ok
							I.P.H. + 12. in Dome.	
						Oct. 3	MC SC S MTW STW SW MS -5.0 -35.4 -27.0 +27.1 +30.6 -26.4 -5.2	
					Sat (200 visitors)	Oct 4	S-L VB 101 [illegible]	
							at 9 100 more, [illegible]	
					Fri	Oct 3	175 visitors RASC. Clear showed M15 with 74".	

Date Sunday Oct. 5/6, 1952 Observer Falk – HS Julian Day 2436482

⊙ 192 06 45.4 3561.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24446	HD 182293	19 18.9	+20 05	I-25	F103a-0	.008 SCL	+10.0	20 12	23 12
	AG 1264							23 14	
	HD 5910	00 26.9	+19 26						
24447	HD 220771	23 21.4	54 34	"	"	.016	10.0	00 52	03 22
24448	" 31782	04 53.5	25 47	"	"	.008	10.0	03 40	05 16
	7 stars	7 ST	07B						

ome Temp. 48°F
ocus 15:35
ome Temp. +36

Transparency Conditions Very good 274

Delayed start because of trouble in cir-
hairsuntch. Loaded to fix it

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23[illegible]	+ 3[illegible]1	20 11	0!	8.29	K3 III	4-4-4	cal 2 Se-GHV Seeing 3 seeing poor! 670 - 80C	good
		27 21				4-	cal 2 gave 1 count in 10 min! 803-	
				8.49	Ke III		cal 5	
0[illegible]2	438W	54 53	00	8.7	A5 Ib	2-2-2	" 8 OB AS FAR WEST AS POSSIBLE 0824 0939	#3 good
05 16	100W	25 52	00	8.09	K0 III	4-44	" 2 Se-GHV. 0942 0950	#2 Cirrus
						15/10	" 8	OK

2 P.H. + 20?

Seeing horrible all night.

	mc	sc	s	MTW	STW	sw	mE
Oct 6	-5.0	-36.9	-28.1	+8.2	+12.7	-31.4	-0.1

Date Mon: Jan 1958 Oct 6/7 Observer MR Li Julian Day 2436483

⊙ 193 05 56.4 3563.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
697-79	10 Lac.	22h 37m.3	+38° 51'	USNO 24" & Lac		20	5/6	20 46	
698-79	16 Cep	22 00.7	+57 48	"	"		5/7	22:13	
699-79	19 Cep	22 03.4	+62 05	"	"		"	23 20	
21449	ε And	00 33.2	+28 41'	I 25	F 103a O	Set 006	9.00	3 1 51	3 6 35
21450	HD 2910	03 26.3	+24 26'	"	"	"	9.15	3 23 12	3 27 04
21451	HD 28705	04 17.6	+10 01'	"	"	"		3 55	
	Focus Test - Outside Through Base								

2:60 Test also when dec entered doesn't appear satisfactory i.e. the entered (?) just clatters away without moving image - both N and S although S wide reasonably well set. Now - close and slow first to find

Dome Temp. 47°F

Focus 15.34

Dome Temp. 50°F

Transparency Conditions hazy + clouds

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				4.67	09 V	30"	½A/sec, ½"/mm	
				5.50	09 V	"		
				5.17	09.5 Ib			
	00h 41m W	+29° 05'	3	5.25	G8 III	12	Set 2 GHV	good
	[illegible]	+74° 32'	3-2	4.49	K0 III	4-4-5	Set 2 GHV [illegible]	good
		+10° 11'	3			4-	Set 2 GHV [illegible] (clouds)	weak
						15/10	Set 8	OK
		3ph + 16 [illegible]						

[illegible] SW portion of sky completely clouded

[illegible] Very thick haze all over sky

[illegible] Clouded out

277

Date We/th October 8/9 1958 Observer vdB - Hr Julian Day 2436485.

⊙ 195 04 25.2 3557.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
24452	HD2925	00 27 4	+22°38'	25"	103a0	.008	15.4	22h02m	23 02		
24453	27 Ari	02h25.4	+17°16'	"	"	"	15.4	23h32m			

Dome Temp. 61

Focus 1542

Dome Temp.

Transparency Conditions 5/10 Cloud + Haze.

2/10 Cloud 10 30pm - Clear

4/ " 11 28pm - Clear

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4h37m E	+22°58'	0-1	7.74	K0III	4+4+4	Set 2 pr#2 Se H: Hel. program	
0h50 E	+17°29'	0	7.13	K0III	4+4+4	Set 8 Se H: Hel. program	
					5/16	" " 5 H: Hel. program	
						3 P. H. T.	
						Tues Oct 7 45 visitors I year Beginners	
						Wed. Oct 8 12 " III year Jr + P.	
						Navlab Class leaves at 9 30 pm	
						Thurs Oct 9 24 visitors II year Jr + P.	
						mc sc s MTW STW JW ME	
					Oct. 10	-6.7 -37.6 -30.4 +40.1 +40.1 -32.5 -10.9	
						Saturday October 11, 1958	
						70 visitors. Demonstrated telescope and showed	
						β Cygni. As it clouded up, showed slides	
						and lectured on astronomy. Li, Blk and Dq	

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Date Mon/Sun Oct 13/14 1956 Observer – Li Julian Day

Plate No.	Object	R.A. 1900 1950	Declination 1900 1950	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F.
700-80	16 Tau	$3^h\ 42^m.5$	$+24^\circ\ 10'$	HY 12		Set 020	52	1:[illegible]		
701-90	17 Tau	$3^h\ 42^m.5$	$+24^\circ\ 05'$	"		"	53	1:36		
~~5-1-56~~	δ^1 Ori	(Mar) $5^h\ 31^m.7$	(Dec) $-0^\circ\ 14'$	I-25	E-1030 J	Set 020				

Some Temp.
Items
Some Temp.
Sun angle last

Dome Temp.... 43°F

Focus 15.33

Dome Temp. 44°F

Transparency Conditions cloudy thin

Ending Time E.S.T.	Hour Angle End START	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	12h E	+24° 10'	4"	5.43	B7 III	30"	1240- 1540 Int P. Low 2½ in 11 sec	
	55m E	-23° 56'	2"	3.81	A5	-09	1260- Hazy,	
			0	5.2	K1 III		Int P. Eq Hz Solid cloud	
							3:20 cloud	
							mc sc s mTw sTw sw mE	
						Oct. 14	-6.0 -29.8 -33.3 -38.2 -34.5 -40.1 -0.9	
						17	-5.5 -41.6 -35.3 -16.4 -4.9 -44.4 +2.4	

281

Date Sat-Sun. Oct 18/19, 1958 Observer Dq - L Nyhelt Julian Day 2436430.

⊙ 204 58 56.9 3577.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
24454	~~HD 2[illegible]~~ BD ~~+63° 64~~	23h ~~+5.1~~ 12.2	+63° ~~64'~~ 35'	I-25	E10:40	0.016	+12.4C	22 15	23 36	3
24455	5 Lacertae	22h 25.4m	+47° 12'	"	"	.008		0 17	0 20	4
24456	"	"	"	"	"			0 21	01 01	4
702-81	"	"	"							
703-81	Veld		16° 16'			"				
24457	GC 8756	4h 42.8	+32° 25'	"	"	.008	12.1	2 06	2.22	1
24458	BD 21771-2			"	"	.008	12.1	2 35	4 35	2
24459	" 416 36	06 01.3	41 04	"	"	"	12.1	4 41	5 37	3
	Focus Run				077					

Dome Temp. 48° F

Focus 15.39

Dome Temp.

Transparency Conditions Clear

Dec. 2 showed Ring Nebula, then M 5
Globular clusters to about 190 inches

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	53W	-63°55'	0	~~4.2~~	~~B0 II~~ Fo	2-4	Set 2 ~~Wrong star, too declination to [illegible] E.B program. 2008-~~	
	21W				KpHo	12	Std 2	
	02W				"	4-4-4	" 8	
			8			30"	4250 – UV limit	
			10			5"	4250 – 3390	
	54E	32 30	0	5.94	A3	6-6	Std 5	
	37W	44 42	0-1	7.3	Ko-A	4-4-4	" 5	
	03W	41 03	0-1	7.41	Ko III	4-4-4	" 4 Se G.H.V.	
						5/10	" 8	
							4PHs loaded + 0	

283

Date Dec.-Nov. in IB Oct. 19/50 Observer Ek-Hynek-HV Julian Day 2436496.

⊙ 205 58 34.2 3579.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24460	HD M22 93	17 15 9	+30 05	I-25	E103-a-D	22L .008	13.5	18 58	20 15
24461	2 Lyr 4	17 [illegible]	+37 41	"	"	"	"	20 29	21 05
	7 Lac	22 25	+39 12	"	"	"	"	20 36	21 36
24462	3 Cyg 17	[illegible]	+41 50	"	"	"	13.2	22 44	23 04
24463	2 Her	[illegible]	+30 26	"	"	"	"	23 14	[illegible]
24464	HD 28124	04 23.9	+13 41	"	"	"	13.5	0029	0217
24465	" 28505	04 24.6	+10 01	"	"	"	13.2	0234	0346
24466	" 40460	05 53.6	+7 17	"	"	"	13.1	0358	0538
	Moon 7-1		57B.						

ome Temp.... 2°

ocus.....

ome Temp.....

Transparency Conditions ..... Fair .....

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
								good
								good
	23E					4-4		good
	5E	13 47	1-0	8.94	K_2 III	4-4-4	" 5" S=GHV. 2252 2407 II 3	
	5-4W	10 10	0	?	?	4-4-4	" 5 " 2413 2435 II 2	
	15W	27 16	0	7.61	K_1 III	4-8	" 2 " 2437 2455 II 2	
						15/10	" 8	
							I.P. H+4	
							MC SC S MTW SW SW ME	
						Oct 20	-5.2 -41.8 -35.9 -4.1 +1.8 -49.5 +0.8	

285

Date Mon-Tues Oct 20-21 1952 Observer J.A.H. - L.R. Julian Day 2434 437

⊙ 206 58 13.3 3580.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24467	47 Cyg	20h 31.9 (1950)	+35° 03'	I-25	103a-0	set .008	+12 5	19:14	20:54	2
704-52	"	"	"			20		20:50	—	
705-52	ε Lac	22 27	+47 27	—	—	20		21:22	—	
706-52	β Cep	01 08	+35 25	—	—	"		21:50	—	
707-52	δ Cep	00 15	+58 28	—	—	"		22:06	—	
708-52	ε Lac	22 27	+47 27	—	—	"	6-7	23:00	—	
709-52	β Cep	01 08	+35 25	—	—	10	6-3	23:25	—	
710-52	16 Cyg	3h 45.5	+24° 16'	Hr 2		set 20	5/2	00:29	—	
711-52	17 Cyg	3h 45.5	+21° 00'	"		"	5/3	01:13	—	
712-52	16 Cyg	3h 45.5	+24° 44'	"		"	6/2	00:54	—	
713-52	17 Cyg	3h 42.9	+21° 21'	Hr x 3		"	5/4	01:19	—	
714-52	21 Cyg	3h 45.6	+28° 24'	Hr 2		"	6/2	1:35	—	
715-52	21 Cyg	3h 45.1	+23° 59'	Hr x 3		"	5/3	1:51	—	
716-52	17 Cyg	3h 45.5	+21° 16'	Hr 2		"	5/3	2:15	—	
717-52	21 Cyg	3h 45.1	+23° 59'	"		"	5/2	2:32	—	
		(Guide Star)		Hr 2	Plate)					

Dome Temp.... 58°F

Focus.... 15.39

Dome Temp....

Transparency Conditions only fair - medium cirrus

Ending Time E.S.T.	Hr Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20:44	50 W	+35° 07	0	6.0:	K5 A3	4-4-4	acts for Dr Hynek	
–				4.5:	"	30"	λ 4250 to UV " "	
–				5.6 mi	"	"	" " " "	
–				2.0 mi	M0 III			
–				4.6 mi	A2 V	"	λ 4250 to UV also 3900 to 3600 @ 1A/sec with 2nd D	
–				4.6 mi	K-A	"	at 1A/sec 4000-3600 Emission	
–				2.0 mi	M0 III	"	" "	
	30" E	- 24° 46'	1"	5.45	K2 III	30"	4260-4540 2nd D. 1A/sec 2/min	
	19" E	- 23° 58'	5"	5.21	K3 III	30"	4260-4540	Field checked on star chart
	06" E	+ 24° 23'	8"-10"	5.65	K2 V	30"	4260-4540	
	18" E	+ 24° 18'	6"	4.37	A6 IV	30"	4260-4540	
	28" E	+ 24° 25'	4"	5.05	K0 V	30"	4260-4540	
	1" E	+ 23° 55'	6"	2.96	G7 III	30"	4260-4540 " " " "	
	9" W	+ 23° 56'	5"	3.64	K0 III	30"	4260-4540	
	17" W	+ 23° 57'	4"	3.82	K2 III	30"	4260-4540 " "	
		N. TE	AT	2:13	clouds and dust			

(CONTINUED FROM PREVIOUS PAGE)

Date ..... **Observer** — Li **Julian Day** .....

Plate No.	Object	R.A. ~~1900~~ (1950)	Declination ~~1900~~ (1950)	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
718-82	29 Tau	3h [illegible]	[illegible]	[illegible]		[illegible]	5/2	2:50	—
719-82	ε (45) Per	3h 55.6m	+39°54'	"		"	5/1	3:12	—
720-82	71 Tau	4h 59.8m	+22°55'	Hγ3		"	5/4	3:31	—
721-82	ν (10) Aur	5h 03.7m	+41°11'	Hγ2		"	5/2	3:53	—
722-82	ζ (12) Tau	5h 35.3m	+21°07'	"		"	5/2	4:10	—
723-82	ν (67) Ori	6h 15.3m	+14°47'	"		"	5/2	4:29	—
724-82	69 Ori	6h 07.2m	+16°05'	Hγ3		"	5/6	4:53	—
725-82	ε (70) Ori	6h 09.7m	+19°13'	Hγ2		"	5/5	5:16	—
726-82	λ Ori	7h 15.7m	+16°37'	"		"	5/3	5:31	—
727-82	π Ori	5h 53.0m (1900)	+17°21'	4510	3550	"	5/2	5:51	—

Please note that the hand control don't always work unless grounded to telescope.

Dome Temp.....

Focus.....

Dome Temp.... 45° F

Transparency Conditions Clear and Cold

Ending Time E.S.T.	Hour Angle End (START)	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
-	1h 41m W	+5° 55'	4"	5.46	B5 I	30"	4260-4575, Lists E, B Sp. Stars	
-	2h 56m W	+30° 52'	10"	2.46	B1.5 I	30"	4260-4560, " , " , " (Lists E)	
-	3h 39m W	+32° 31'	8"	4.33	B5 I	30"	4260-4510, " , " , " , "	
-	3h 29m W	+41° 10'	5"	3.28	B3 II	30"	4260-4540, " , " , " , "	
-	4h 15m W	+21° 07'	5"	3.00	B2 III	30"	4260-4540, " , " , "	
-	5h 05m W	+14° 46'	4"	4.10	B3 II	30"	4260-4560, " , " , " , "	
-	5h 25m W	+16° 08'	4"	4.72	B5 II	30"	4260-4565, " , " , " , "	
-	5h 17m W	+14° 12'	4"	4.35	B3 II	30"	4260-4570, " , " , " , "	
-	5h 04m E	+16° 35'	4"	3.65	A3 II	30"	4260-4540, List D, " , " (Terminated)	
-	1h 37m W	+7° 24'	15"	1.24	M2 Iab	30"	1A/Sec, 2"/min	
		4 pH 4 O				dome		

	mc	se	s	mw	sw	sw	ne
OW 27	-5.4	-43.7	-39.7	-27.2	-1.0	-1.2	-1.6

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Date Mon Jan 15 to Oct 27/18 Observer MR - Li Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
728 - 83	ζ Peg	22 39.5	+10 38	11 5x2		set 20	5/3	21:45		
729 - 83	12 Lac	22 39.7	+40 01	11		" 20	5/6	22:20		
730 - 83	K Cas	00 30.7	+62 53	11		"	5/5	22:44		
731 - 83	ν Cas	00 47.6	+40 52	11		set 20	5/4	23:08		
732 - 83	ξ Cas	00 39.0	+52.18	11		"	5/5	23:31		

Dome Temp.....

Focus.....

Dome Temp. 45°F

Transparency Conditions clearing — not too good

Shutters were shut from 8:00 to 9:00

Ending Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		+10 35	6"	3.61	B8V	30"	4240 - 4540 Exit D 1A/sec; 4A/sec slit no slit no and slit no	
		+39 59	"	5.18	B2III	"	" " " " 20" ; " slit 40, 5/4	
		+62 46	"	4.24	B1Ia	"	" " " " "	
		—	8"	4.42	B5V	"	" " " " "	
		+50 16	"	4.85	B2V	"	" " " " "	
							solid cloud 00:02 - hopeless 01:00	

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Date Mar/1h 1954 UT 29/30 **Observer** SvB - HV **Julian Day** 2436506

⊙ 210° 56 25.8 3597.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	H
2466	ADS 15942B	22h22.4	+36°57'	25"	103-0	0.08	+8.6	21h05	21h15m	
2467	ADS 16472A	22h58.8	+43°31'	"	"	"	+9.0	21h28m	21h38m	
2470	[illegible]	[illegible]	[illegible]	"	"	"	7.6	23h03m	02 11	
	Same Field		C 913							

Dome Temp. 45

Focus 15 34

Dome Temp. 15 31

Transparency Conditions poor

bag 3.30 and 7.30 (various)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	4h 10m E	+37° 14'	0-1	6.2	B2	6+6	ph 1 pos 2 not seen as binary? [illegible] pos 8 has 8th companion	
[illegible]	4 25 E	+43° 50'	1	6 1	B3	4+4+1		
[illegible]	5 21 W	+26° 11' 6	0-1	8-52	F7 II	4+4	ph 2 pos 2 0210 Cloudy.	
						15/10	ref 8 0300 Cloud.	

Gary

Could you put large remarks in logs on front of [illegible] in N pier?

EXMTR has malfunction.

2 P.H. +12

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Date Oct 30/31 1958 Observer RH Julian Day 2436507

⊙ 216 56 23.5 3599.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24471	HD 213014	22 23.4	+16 46	25"	10300	.008	10.1	20 11	21 41	

ome Temp.....
ocus..... 15 35 .....
ome Temp.....

Transparency Conditions .....
Cloudy until 7:30

Ending Time P.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 +1	3h 34m W	+17° 01	0	8.5	G8	4-4-	Set 5 HAZY OB program Brighter & a double. Clouded out Completely Overcast 2230 2 P.H. + 0	

	mc	Sc	S	mTW	sTW	SW	ME
Oct. 31	-4.7	-45.8	-40.6	+4.1	-1.0m	-9.5	-4.3

Friday Saturday

Date Oct 31 – Nov 1 **Observer** So – Mc / Li **Julian Day** 2436508

⊙ 217 56 23.2 3601.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
733-5A	172167	18.336	+38 44						
24472	221914	23 31.0	+17 53	I-25	E 103a-O	cut .008	+11.8	19.40	21h 10
24473	3628	0 34.0	+2 34	I-25	E 103a-O	"	"	21.45	23.21
24474	21910	03 26.9	+74 26	"	"	"	+11.6	23:55	
24475	HD 12485	02 02.8	+75° 13	"	"	"	11.4	1:33	5:33
24476	[illegible]	05h 31.0	+09° 11	"	"	"	10.3	5:43	6:10

Cannot see to focus. Trying for [illegible]

1:00 Manhattan police called and asked us to report regarding our finding first finding a common point on the [illegible]

Dome Temp. +52°F

Focus 15.36

Dome Temp. +34°F

Transparency Conditions Good. light haze

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							Spectroplotters giving random response.	
	h m 4.40	18° 12'.5	1	8.33	G5 V	4-4-4	Set 2 | Se IIV ExMII set 8	2651 2701
	h 15m W	+02° 53'		7.93	G2 V	4-4-4	Set 8 | Se HV ExMII set 8	2709
	0h W	+74° 36'	1-0	9.49	K0 III	4-4-4	Set 2 | Se-GHU ExM. set 9	2767-2771 2850
	5m W	+25° 38	0	8.7	G0	4-4-4	Set 2 Binary	
	12m 0	+7° 15'	0	5.04	K0 III	6-	Set 2 Se 5HV	
			2½ +					
	then tomorrow							
	forenoon							

Date Sat/Sun Nov 1/2, 1958 **Observer** Li - **Julian Day** 2436509

⊙ 218 56 25.0 3603.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F
2477	HD 217312	23h 54.8m	+62° 32'	I-25	E103aO	Set .108	7.8	15 [illegible]	19:40	1
2478	HD 219634	23h 16.3m	+61° 25'	"	"	"	7.7	19:47	20:13	2
2479	HD 217747	23h 18.3m	+44° 57'	"	"	"	7.8	20:21	21:37	4
	"		"	"	"	"	7.9	20:43	21:12	4
2480	HD 15043	2h 7.5m	-1° 05'	"	"	"	7.8	21 [illegible]	[illegible]	

Dome Temp. 43°F

Focus 15.33

Dome Temp. 37°F

Transparency Conditions Good

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	51"E	+62° 52'	0	7.8	B0III	4-4-4	Set 2 - OBII p22	fine
	35°E	+61° 44'	0	6.44	B3	4-4-4	Set 2 - Spec. Binary (2.1 6.2d)	fine
	12 E	+45° 3'	0	6.3	B3p	4-4-4	Set 2 - HW Pic A*	stormy
	23"W	"	0	"	"	4-4-4	Set 2 - " " "	stormy
	16°E	-00° 50'	0	7.53	B2V	4-4-4	Set 2 - Se HV	fine

Date Nov Dec Jan 3/4 1958 Observer N.R Julian Day 2436511

⊙ 220 56 30.0 3608.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
734-85	ζ Peg	22 39.5	+10 38	–		set 40	4/2	19:20	
735-85	AR Cas	23 28.2	+58 20			"	4/5	19:49	
736-85	HD 224559	23 8.7	+46 11			"	5/3	20:20	
737-85	10 Lac	22 37.3	+38 51			"	4/5	20:36	
738-85	HD 829	00 10.8	+37 28			"	5/4	20:55	
24481	HD 219634	23 12.2	+61 25	I 25	103a-O	set .008	19.4	21:20	21.40
739-85	HD 829	00 10.8	+37 28			40	5/4	21:52	
740-85	HD 1976	00 22.1	+51 48			"	5/1	22:05	
741-85	ξ Cas	00 34.7	+53 41			"	4/2	22:17	
742-85	ξ Cas	00 39.8	+50 [illegible]			"	4/5	22:30	
743-85	O Cas	00 47.4	+49 04			"	4/5	22:43	
744-85	γ Cas	00 54.3	+60 [illegible]			"	3/5	22:57	
745-85	φ Per	01 41.1	+50 29			"	4/4	23:13	
746-85	1 Per	01 49.4	+54 57			"	5/1	23:29	
747-85	ζ Cas	01 51.5	+63 29				4/3	23:43	

(Continued [illegible])

Time Temp.....

Focus 1534

Time Temp.....

Transparency Conditions excellent 300

19"21" new cell installed in 4-ft dia. telescope this afternoon

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				3.61	B8 V	30"	C4570 – 3810 + HγδH5 4A/sec 2"/min	
				4.9	B3 V	"	4000 – 4600 "	
				6.5	B3 IV	"	" 4700 "	
				4.67	O9 V	"	3950 – 4150 "	
				6.6	B2 V	"	" – " "	
	00 W	61 43	1	6.44	B8	4-4-4	8pr 13in (Dr Hall) set 2	Some Cyanides
				6.6	B2 V	30"	3950 – 4150 + HγδH5	
				5.2	B5 V	"	" " "	
				3.72	B2 V	"	" " "	
				4.55	B2 V	"	" " "	
				4.70	B2 V	"	" " " " ?	
				2.8	B0 V e	"	" " "	
				4.0	B2 e	"	" " "	
				5.3	B3 V	"	" " "	
				3.3	B3 p	"	" " "	

(Continued from previous page)

Date Mar/Apr Mar 3/4 **Observer** - L.i **Julian Day**

Plate No.	Object	R.A. 1900 1960	Declination 1900 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
								00?	
748-85	S(82) Cet	2h 37.5	+00° 10'			40	4/4	12:16	
749-85	35 Ari	2h 41.1	+27° 32'			"	4/5	12:39	
750-85	HD 20356	3h 16.5	+65° 00'			"	4/5	13:17	
751-85	29 Tau	3h 43.6	+05° 55'			"	4/6	01:16	
752-85	30 Tau	3h 46.1	+11° 01'			"	4/6	01:31	
753-85	E(45) Tau	3h 51.8	+39° 54'			"	3/6	01:47	
754-85	48 Tau	4h 05.8	+17° 46'			"	4/4	02:04	
755-85	μ(49) Tau	4h 13.7	+06° 48'			"	4/5	02:24	
756-85	η (10) Cam	5h 03.1	+11° 11'			"	4/2	02:41	
757-85	119 Tau	5h 25.2	+21° 54'			"	4/5	02:59	
758-85	32 Ori	5h 38.6	+05° 55'			"	4/4	03:21	
759-85	5(135) Tau	5h 35.3	+21° 07'			"	3/6	03:35	
760-85	μ(57) Ori	5h 05.3	+14° 47'			"	4/5	03:54	
761-85	119 Tau	5h 38.5	+16 08'			"	4/6	04:08	
762-85	5 Ori	5h 35.7	+14° 13'			"	4/5	04:22	
		(illegible)	(illegible)	(illegible)	(illegible)				

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions Good

Ending Time E.S.T.	Hr Angle End START	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	14m W	+00° 07'	4"	4.04	G2 I	30"	3950- 4700 + Hγ + H5	
	53m W	+27° 30'	4"	4.58	B3 II	30"	" " " "	
	1h 12m W	+65° 30'	5"	4.76	K2 Ia	30"	" " " "	
	—	—		5.36	K3 II	30"	" " " "	
	30m W	+11° 01'	4"	5.03	B5 II	30"	" " " "	
	20m W	+39° 52'	8"	2.46	A0 Ia	30"	" " " "	
	55m W	+47° 34'	5"	4.05	K5 II	30"		
	41m W	+8° 46'	5"	4.32	A3 II	30"	" " " "	
	15m W	+41° 11'	5"	3.28	B5 II	30"	" " " "	
	39m W	+21° 54'	5"	4.83	F3 II	30"	" " " "	
	25m W	+5° 54'	5"	4.32	A2 IV	30"	" " " "	
	35m W	+21° 07'	8"	3.00	A2 III	30"	" " " "	
	9m W	+14° 17'	7"	4.40	B3 V	30"	" " " "	
	34m W	+16° 08'	5"	4.72	B5 V	30"	" " " "	
	13m W	+19° 13'	6"	4.35	G3 V	30"		

303 (Continued from previous page)

Date Morning Nov 24 Observer [illegible] Julian Day [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
763-85	λ Hya	7h 15.7	-16° 37'	11"x1"	10	40	1/4	01:36	
764-85	ν Hya	7h 38.3	-31° 59'	11"x2"	"	40	—	05:13	
765-85	HR 3314	8h 25.7	-35° 47'	11"x2"	"	40	1/4	05:38	
766-85	η Hya	8h 47.1	+48° 12'			40		06:36	

Would somebody please look at the RA clamping motor. It seems to run to one end, and the Declination Slow Motion clamping and unclamping by hand.

ne Temp.....

Transparency Conditions Good

xus.....

ne Temp. 40°F

light wind but low altitude haze

Ending Time E.S.T.	ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	32E	+15° 34'	5"	3.45	A3E	30"	3250-1-33 [illegible]	
	16TW	+32° 58'	5"	1.97	A1E	30"	A250-1548 [illegible]	
	09E	-03° 17'	7"	3.95	A0E	30"	3450-4750 [illegible]	
	15W	+07° 31'		3.12	A7E	30"		
			1 pH	+	12			
							mc sc s mTW sTW sW mE	
						Nov. 4	-3.0 -47.2 -43.0 -0.8 +7.2 -21.8 -6.2	

305

Date Tues Nov. 4-5/58 Observer L DM – Hr Julian Day 2436 512.

⊙ 221 56 43.1 3610.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24482	B.D. + 31° 3921	20 00.3	+31 53	I-26	E103A0	Set .016	+9.5	18 25	19 55
24483	BD +60° 2380	22 15.6	60 16	"	"	"	+9.5	20 02	22 12
24484	BD +26° 595	03 34.1	26 40	"	"	.008	+9.5	22 39	03 11
	Tues Dec. 07B								

Temp. 52°F

Transparency Conditions Hazy

30x

is 15.34

Temp.

Ending Time E.S.T.	Angle ind	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 [illegible]	30W	32 03	1	8.8	B_1 I_{b2}	2-2-2	Alt 5 OB prty.	fine
22 12	32W	60 34	1-2	9.13	B_2 III	2-2-2	" 5 " "	fine
:	113W	26 50	2	9.39	G_8 III	4-4-4	" 5 se GHV	l weak
						15/10	" 9	OK
							0200 Clouds.	
							28.H. + 8	

Date Mar 6-7/58 Observer - H Julian Day 2436 514

⊙ 22357 05.8 3614.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
						set	7.3		
24485	HD 52071	06 54.7	27 18	I-25	E103a-O	.008	7.0	0142	0356
24486	" 63410	07 43.6	26 31	"	"	"	7.0	0405	0605
	Moon	7.5T	07B						

me Temp. +39

cus 15·31

me Temp. +34

Transparency Conditions Clearing st mid +30s

Ending Time E.S.T.	ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0556	015 E	+27 12	00	8.37	K2 III	4-4-4	Set 2 Se-GHV 5318 5369 #8	fair
0557	005 W	26 21	0	7.73	G8 III	4-4-4	" 9 " " 5370 5391 #7	fair
						15/10	" 5½	

1 B.H +8

Ex. Mer. Working OK!!??!

	mC	sC	S	mTW	sTW	sW	mE
Dev. 7	-1.6	-48.8	-44.7	+23.2	+28.8	-27.3	-1.2

309

Fri-Sat

Ee

Date Nov 7th 8th Observer Ms — JG Julian Day 2436515

D 24+7 20 2 26.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. +6.2	Starting Time E.S.T.	Ending Time E.S.T.
24487	H.D. 222794	23h 38.4	+57° 31'	I-25	103a-O	Sl -008		21.07	21.40
24488	HD 219634	23 12.2	+61 25	"	"	"	+6.2	22.10	22.43
24489	HD 11592	1m 46.7	+16 66	"	"	"	+6.0	23.40	00.10
24490	ζ Per	3h 01.8	+49° 14'	"	"	"	+5.9	00.56	00.30
24491	λ Aur	5h 12.1	+40° 01'	"	"	"	+6.1	01.47	00.52
24492	HD 43318	6h 10.5	-00° 28'	"	"		+6.0	01.09	1.22
24493	HD 55575	7h 08.4	-47° 35'	"	"		+6.0	01.56	01.52
24494	HD 62301	7h 38.2	+39° 49'	"			+6.0	02 11	2.30

bme Temp. +40°F

Transparency Conditions Good

bcus 15·30

bme Temp. +37.5°F

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.			REMARKS	Quality
	1h 0m W	+57° 51′	1	7·76	G2 II	4-4-4	set 2	Se-HV	Ex Mtr scan 8	5417
	17m W	+6.1 44	0	6.44	B8	4-4-4	set 2	Sp Bin (R Hill)	Ex M #7	5465
	08m W	+10 25	0	7·24	F5 II	4-4-4	Set 8	Se HV	#7	5490
	15m W	+49° 25′	0	4.64	G0 II	4-4-4	set 2	Se HV		5529 36
	34m E	+40° 04′	0	5.38	G0 II	4-4-4	set 8	"		5561 69
	00m E	- 00° 29′	0	6·15	F6 II	4-4-4	set 2	"		5572 79
	30 E	-47° 17′	0	6.16	G0 II	4-4-4	set 8	"		5583 90
	21 E	+39° 38′	0	7.30	F8 II	4-8	set 2	"		5594

~ 2:30 clouds forming all over the sky

10/15 set 8 fomalhaut

	mc	sc	s	MTW	STW	SW	ME
Nov. 10	-0.9	-50.3	-46.8	-10.7	-2.6	-34.5	+1.6

3 F.H. + 1

B4

Date Mon/Tues Nov 10/11 Observer L. Julian Day 2436518

© 227 58 15.2 3621.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24195	HD 52071	06h 54.7	+27° 18'	1-75	E103aD	5.4	5.6°C	2:38	4:06
24196	N° Cam	06h 58.1	+74° 35'	"	"	"	5.6°C	4:42	5:24
24197	D 55575	07h 5.7	+47° 32'	"	"	"	5.6°C	5:44	6:10
	From Ref	OTB							
24197F				1-75	-.5		3.2	6.2	6:15
					1575		3.1	6:24	6:25

Dome Temp.
Focus 15.30
Dome Temp. 37° F

Transparency Conditions clearing after 1:00
clear until 2:44

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0h 40"W	+27° 12'	0	7.77	K2 III	4-4-4	Set 2 Sc Gal V	
	1h 07"W	+24° 12'	0	7.11	G8 III	4-4-4	set 2	
	1h 47"W	+17° 17'	0	6.18	G0 III	6-6	Set 2 Sc Hi Vel	
						9/12	set 6	
						10/12		
			4 p.M. + 8				mc sc s mtw stw sw me	
						Nov. 14	-4.7 -52.4 -48.7 +13.1 +26.6 -46.0 -3.9	
							mc sc s mtw stw sw me	
						" 17	-3.1 -55.1 -49.4 +21.6 +37.5 -55.6 -2.2	
						21	+5.4 -57.2 -51.0 +6.2 +43.5 -8.5 -7.1	

Date 1958 Nov 19/20 Observer NR Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
767-86	δ Del	20 37.8	+15 47	HR	2	.020	5/2	18:56	
768-86	σ Cyg	21 15.9	+39 14	"		"	5/3	19:14	
769-86	9 Cep	21 36.8	+61 54	"		"	5/5	19:28	
770-86	14 Cep	22 00.7	+57 48	"		"	5/6	19:44	
771-86	ζ Peg	22 39.5	+10 38	"		"	4/6	20:01	
772-86	10 Lac	22 37.5	+38 51	"		"	5/4	20:14	
773-86	12 Lac	22 39.7	+40 01	"		"	5/5	20:26	
774-86	γ Peg	0 11.2	+14 58	"		"	4/5	21:16	
775-86	42 Cas	0 34.7	+53 41	"		"	5/3	21:34	
776-86	δ Cas	0 47.6	+60 52	"		"	5/3	21:48	
777-86	ξ Cas	0 48.0	+57 18	"		"	5/4	22:06	
778-86	HD 1976	0 22.1	+51 48	"		"	5/6	22:18	
779-86	ϵ Cas	0 51.5	+63 28	"		"	4/6	22:35	
780-86	1 Per	1 49.4	+54 57	"		"	5/5	22:49	
781-86	η Per	1 41.1	+50 29	"		"	5/3	23:05	
782-86	ζ Cet	2 37.5	+10 10	"		"	5/3	23:21	

Dome Temp. 40°F — Transparency Conditions excellent — 314

Focus

Dome Temp.

Closed at 1 AM. Completely Cloud. HS

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			7"	3.86	B9 V	30"	4540 – 4256, D (lit)	1A/sec 2"/min
				4.28	B9 Ic	"	4260 – 4485, D	
		+61 54		5.02 5.76	B2 IV	"	4250 – 4530 D	
				5.50	B9 V	"	4250 – 4530 D	
				3.61	B8 V	"	4260 – 4490 D	
				4.09	B9 V	"	4260 – 4510 D	
				5.15	B2 III	"	4250 – 4530 D	
				2.87	B2 IV	"	4250 – 4530 D	
		+62 42		4.24	B1 Ia	"	4250 – 4530 D	
				4.42	B8 V	"	4260 – 4530 D	
				4.85	B2 V	"	4250 – 4530 D	
				5.12	B8 III	"	4250 – 4530 E	
				3.33	B3 p	"	4250 – 4530 E	
				5.53	B2 V	"	4250 – 4530 : E	
				4.10	B2 Ib	"	4250 – 4530 E	
				4.04	B2 IV	"	4250 — E	clouds!

315

22/23 Sat/Sun?

Date 1938 Jun 24/25 each. Observer S. & B. Rm. Julian Day 2426 532

(2426 at 11.1 GT 38.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24498	HD 26 Roman 1	0h 00m 2	+8° 14'	25	103aO				
			Clouded over			6:05			
			Left + clouding up 7 WD						
			open up 9:02			clear			
24498	Roman 83	3h 34.1	+26° 40'	25"	103aO	08	+3°C.	21/4 50	01·05

Dome Temp. 37°

Focus 15.2c

Dome Temp.

Transparency Conditions clear. Cloud on Hor.

beg 5.30 EST

6.05 cloud and Altocumulus

9.00 clears

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1.05	1h 18m W	+26° 48'	0	9.39	G8III	H+H+H	SHV prism PH4 pos 2.	
							Thick haze setting in 00.35	
							Completely Overcast 01.05	
							Stopped dome clock about this time 01:10	
							Clear overhead at 05.00	
							3. P.M.	

	MC	SC	S	MTW	STW	EW	MC
Nov. 24	+7.4	-3.0	-2.7	-28.8	-6.8	-9.7	-4.8

317

Date June Nov 27-28/42 Observer WH Julian Day 2436535.5 ~~.9~~

0 245 07 34.0 36 44.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
2NH99	HD219634	23 12.2	61 25	I-25	E0320	.008	+4.0	19 15	20 34	1
2NH100	HD219747	23 13.2	44 57	"	"	"	-1.0	20 42	21 54	2
	Horsehead									

Dome Temp. +26

Focus

Dome Temp.

Transparency Conditions Looks good, but according to Extinction may poor.

316

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	W 1 26	61 45	0	6.44	B8	4-4-4	Sens 6 Full Disc Const 5 27-34 Field check	Very thin
	W 2 45	45 17	0	6.7	B+p	4-4-4 w Wehlau pec A 57 5 - 5 7 41 - Hyades Cluster	Very thin
		OTB				4 5 0 8		

	MC	SC	S	MTW	STW	SW	ME
Dec. 1st	+14.0	-3.0	-5.8	+1.0	+3.	-6.8	+.04
	MC	SC	S	MTW	STW	SW	ME
Dec 3	+14.2	-15.1	-7.0	-9.	+.1	-6.	+.03
	MC	SC	S	MTW	STW	SW	ME
Dec 5	+18.0	-17.8	-8.0	-1.0	-.58	-4.9	+.02

These plates must be thin for normal purposes. What was wrong with ty-Mother? Hal

Date Fri Dec 5-6/58 Observer HL MS - HS DJ Julian Day 2436543

⊙ 252 13 15.5 3654.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24500	No. 831 BD 47° 835	3 27.1	+47 53	I-24"	E103a0	016		0024		
24501 J	ζ² Cnc	5 31.4	+19 14	I-25	E103a0	008		0058	0110	3
24502 V	51 Oph	5 37.3	+01°26'	"	"	"	-2.1C	01°17	01°57	
24503 J	ν² Gem	6 27.1	+24°55'	"	"	"	-2.2C	02°08	02°14	4

Dome Temp. +17° F — Transparency Conditions Poor — 320

Focus

Dome Temp. +19° F

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				~~7.2~~	~~Bg~~	~~2~~	Set 2 can't [illegible] lens 7 Hampden. 5749– Too humidity to	Unable
1 10	0h 16m W	+9° 17′	0	5.04	K0III	4-4	Se GHV lens 5	5735? 5760 Fine
1 17	0h 57m W	+01° 24′	0	6.08	K1III	4-4-4	set 3 Se GHV lens. 6	5761 5768 Good
1 [illegible]	1h 3m E	+24° 13′	0	7.38	G9III	4-5	set 2 " lens 7	5770 5776 Too weak
						15/10	set 1 (Forms Test)	Decided to go from the Control to
								Set 7 ~ 2 1/2 hrs
							Was focus ever set?	completely cloudy
							M/s speeded up – Hd	closed 12:15
								closed 12:30
							2 F.H. + 4	

321

Date Mon/Tues Dec 29, 1958 Observer L.L. Julian Day 2436546.

© 25617 CC, 73659.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
2450J	HD103095	11h 47.2	+38° 25'	I-125	E-103a-O	5 mil 100		05:21	
		reset focus to 15.13,					etc -7°		instead
	HD103095	11h 47.2	+38° 25'	I-125	E-103a-O	300	-8.0	07:12	7:01

me Temp.....

cus 15.39

me Temp. +13°C

Transparency Conditions Lots of haze in the sky - clearing - 3 Mist Layer - 3 Clear - 5

Ending Time E.S.T.	Hr Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		+37°59	60	7.24	60 III	4	Set 2 Sc HV	
	-4 4	13'						
	09'W	+37°59'	60	7.24	60 III	4+4	Set 8 Sc HV	
					10' 7 4			
		The hr. counter doesn't seem to function properly - I can't get the light to stay out						
		Also the noise in the shutter motor makes it seem						

	MC	SC	S	MTW	STW	SW	ME
Dec 9	+23 2	-1.0	-.9	T. 28	+1.M19	-.5.	-.03.
	MC	SC	S	MTW	STW	SW	ME
Dec 10	+23.6	3.3	-.2	+29	+1.M45	-8	-.33
	MC	SC	S	MTW?	STW	SW	ME
Dec 12	+26.9	-7.2	-.5	+15	+1.M46	-9	-10.9

Date 1958 Dec. 13/14, Sat-Sun **Observer** BK - Su **Julian Day** 2436551.

0261 22 05.2 3662.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24505 J	HD 19455	03 02 8	+25 13	1-25	E103a-J	OCC	-60	20 00	20 30
24506 J	BD +25°906	03 17	+25 45	"	"	"	"	23 30	0 03 0
~~24507 J~~	~~BD +27°831~~	~~03 20.9~~	~~+27° 35~~	"	"	"	"		

ne Temp. 42°F

Transparency Conditions Somehaze

us 15 15

ne Temp.

Ending Time E.S.T.	r Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	265	25 25	0	8 7	60	4-4-4	clr 5 N - Sp bkn	
	2 W	45 57	0	7 7	40	4-4-4	- 5 + Pec No 12	
				7.1	40		+ Pec No 125	
							Very clear, good type spectra Tested Clouds, hazy moon Clear 0515	
							3 Pl + 0	

	MC	SC	S	MTW	STW	SW	ME
Dec 15	+30	-11.6	STOPPED	+1.M	+1M89	-8	-1.9
	MC	SC	S	MTW	STW	SW	ME
Dec. 17	+32.9	-14.3	-14.3	+5c	+1.383	-7	-7.9
	MC	SC	S	MTW	STW	SW	ME
Dec. 19	+34.1	-17.4	-16	+41	+1M34	-7	-1.9

Fri

Date Dec 19/20 Observer Ku Julian Day 2436557

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24507	HD 56224	07 11.1	+26 33	F25	I0300	.006	-10.5	01 42	04 50

ne Temp. 0°F
is 15.09
ne Temp. -6°F

Transparency Conditions seeing : poor

Ending Time E.S.T.	r Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5-30	W	+26 25	0	8·4	K, III	4-4-4	Hazy seeing < 0 Sets & GHV 5882 seeing improves slightly High wind + very poor seeing. Not much point in continuing closed 5.00.	
							2 P.H. + 0	

Date Sat-Sun Dec 20/21, 1958 Observer — BK Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.

me Temp. + 8° F

cus 15.07 Found micrometer screw unclamped

me Temp.

Transparency Conditions Clearing at midnight

Cloud at 1:00 hazy
+ hazy clouds

Ending Time P.S.T.	ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality

329

Sun

Date Dec 21/22 Observer Ru Julian Day 2436559

D.H

⊙ 268 29 33.9 3665.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24508 J	BD 47° 792	03 08.8	+49° 42	I-25	I0340	.008	-10.0	17.55	19.43

Dome Temp. +13°F

Focus 15.10

Dome Temp.

Transparency Conditions Fair

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 43	4 43m	+47° 52	0	8.1	A0	4-	Per # 285 5901-21	

Clouds opened at 19 00

Thick at 19:30 Closed 19:45

4. P.H. + 1

	ME	SC	S	M T W
Dec. 22	+36	-21.7	STOPPED	+35
	S T W	S W	ME	
	+1M32	-6	+1	

331

Date Dec 25/26/52 Observer -H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. -8.8	Starting Time E.S.T.	Ending Time E.S.T.
24509	HD-56224	07 11.1	+26 33	I-25	E103a-O	.008	-9.0	0105	0355
24509 FT	" 88725							0402	
"	"7 Mon	Tot	07B				-9.3		

Time Temp. +10°F

Transparency Conditions Very Good.

Focus 15.11

Time Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1355	2 40W	+2626	00	8.42	K1 III	4-4-4	Set 2 #8 - 5931 5982 Se-GHV	
						4-	" 2 #8 5955 5987 Se-Hv	
						15/10	" 8 0420 Cloud.	
							2 Pitt. +1	
							MC SC S MTW STW	
						Dec. 29	+49 -24.7 -2 +4 -34	
							SW MC -7 -4	

333

Date Tues Dec 30-31/58 Observer Hod – DH : DH – Hs Julian Day 2436568

0 278 40 41.3 3068.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24510	BD +49° 728	03 19.7	+49 26	I-25	E103aD	016	-2.9	18 14	19 48
24511	BD +48 886	03 12.6	+48 17	"	"	"	-2.9	20 05	20 55
24512	BD +51 728	03 16.6	+51 25	"	"	"	-3.3	21 06	22 02
24513	BD +47° 924	03 19.1	+48 03	"	"	"	-3.2	22 13	22 53
24514	BD +47° 923	03 20.9	+47 57	"	"	"	-3.3	23 03	23 25
24515	HD 60299	07 28.7	-25 09	"	"	.008		00 34	
	"						-3.3	01 14	0508
24516	HD 105075	11 47.2	38 25	"	"	"	-3.2	05 24	0608
	) Exp. 7) E 3) B								

Dome Temp. 20F

Focus 15.19

Dome Temp.

Transparency Conditions

334

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1948	E 1 10	49 36	0	7.8	A_0	2-2-2	Set 2 d Per Cluster Sens 8 6045 - 6092	Fine
	E 0 04	48 26	0	7.6	A_0	2-2-2	Set 2 " " " 8 6096 - 6141.	Fine
	W 0 57	51 36	0	7.7	A_0	2-2-2	" 8 " " " 8 6142 - 6184	Fine
	W 1 49	48 13	1	7.4	A_0	2-2-2	" 2 " " - " 8 6185 - 6231	Fine
	W 3	48 06		7.9	A_0	2-2-2	" 2 " " " 8 6234 - 6284	Lstrag
				8.01	G2V	1-	" 2 Wrong Stars. 6287 -	—
	E 3 56 W	+38 01	000			4-4-4	" 8 Guiding VERY poor!! 6288 - 6332 Se-HV	Fine
	E 0 52 W	+38 02	00	7.24	G8V	4-4-4	Some Thin Cloud. " 7 6343 - 6363 Se-HV	Fine
						15/10	" 8	Good

3P.H. + 84

H. - M.

Ex Attn. of all sets.

	MC	SC	S	SW	MC
Sec 31.	+51	-37.1	-13	-18	-2.

335

Date Nov Dec Jan 5/6 1917 Observer MR Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
783-87	4 Lac	22 22.5	+49 1.4	.Hx2		.020	5/4	18:08	

me Temp.....

cus.....

me Temp.....

Transparency Conditions Snow at midnight

Ending Time E.S.T.	ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			10"	4.64	B9Ia	30"	4240 - 4540 List D Stacks 1A/sec 2"/min	
							Jan. 6/59. MC +32 SC +45.4 MTW -1 STW -55 SW -32 ME -2	

337

Date Tues. Jan 6-7/59 Observer L. Julian Day 2436575 ~~2436627~~.

⊙ 285 48 48.5 3670.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24517 ↓	B.D. +47°809	03 14.9	47 36	I-25	E103Ao	5-4 .016	-11.4	18 27	20 47

Dome Temp. + 0.9 °F

Focus 15.08

Dome Temp.

Transparency Conditions

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 47	0 13W	47 46	0	8.3	Ao	2·2·2	Set 2 4 pers Cluster 6490 Clouds 2 Plts + 4	

	MC	SC	S	MTW	STW	SW	ME
Jan. 7.	+.5	-45.8	-42	-2	-6	-32	0.0

Date Wed-Thu Jan 7-8 Observer Sc — Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24518 1	HD 11592	1h 48.7	+10 08	I-75	EV03a[illegible]	set .108		18h 20	

Dome Temp. +14° F

Focus

Dome Temp.

Transparency Conditions Patty cloudy

340

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		+10° 26	0	7.24	F & V		set 2 Se-HV Eruste #7 6573 SAGW	

	MC	SC	S	MTW	STW	SW	MC
Jan 9.	+3	-45.2	-46.2	-2	-.6	-36	+2

341

Date Fr - Sat Jan 9-10 **Observer** Sv B **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
4515	1H485	3h028	+25°13'	15	103a0	.08	-8°C		

Time Temp. 11°F

Focus 15.12

Time Temp.

Transparency Conditions Fair...Amount

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				8.7	50		PHT Set 2	

Trouble with focusing ?
Cas L repaired broken
Cas strut + on 1st no - Alb stat
Ind

4 p.l.

	MC	SC	S	MTW	STW	SW
Jan. 14.	+6	-45.4	-57.4	+15	-.6	-41
	ME +2					
	MC	SC	S	MTW	STW	SW
Jan. 16	+.6	-45.8	-1M04	+15	-.3	-44
	ME 0.0					

343

Date Sat Jan 17-18/59 Observer L ~ ... Julian Day 2436586.
⊙ 297 01 21.4 3664.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24519	HD 32963 Equ. 1-4 D-T.	05 01.8	26 12	I-25	E103Ao	Set .008	1-10.1	22 11	01 11

ne Temp. +9°F

us 15.10

ne Temp. 12°F

Transparency Conditions Good

344

Ending Time E.S.T.	ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							18.00 - 22.08 troubles with collimation and centering star L	
	35W	26 15	0	8.24	G5 IV	A-4-4 15/10	Let 5 Lee HV. End 23.10 Wasted because of cloud. 344 ± 2	Good

345

Date Sun Jan 18-19/51 **Observer** DM HCI **Julian Day** 2436587.
0298 02 26.0 36637

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24520	BD 48° 903	03 16.6	+48° 16	I-25	E103AU	0.008	-9.9	1923	2045
24521	BD 47° 828	03 20.0	+47° 52	"	"	0.008	-9.9	2112	2200

ine Temp. ~ 10°F

tus 15.12

ine Temp.

Transparency Conditions

Ending Time E.S.T.	r Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:45	0 57W	4837	0	6.3	By	4-4-4	Ep 6638-6654 α Per	fair
3:00	2 09W	4801	0	6.8	By	4-4-4	X-Mr 6687 " "	fair
							Closed ~ 2145. Clear later, but more coming.	
							Note: Plates from 17-18 and 18-19 are in two different boxes.	
							Jan 19 - MC +1.6 ME +6 SC -45 S Stopped MTW +23 STW -.5 SW -48	

347

Date Nov Dec, 1959 Jan 19-20 Observer MR - Li Julian Day 2436588
0299 03 29.736629

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
784-88	ζ Tau	05h 35.3m	+21° 07'	Hx2	"	.20	4/5	22:55	
785-88	ϑ Ori	06 05.3	+14 47	"	"	"	5/3	23:28	
786-88	69 Oph	06 09.8	+16 08	"	"	"	5/4	23:57	
787-88	ε Ori	05h 09.7	+19° 13	"	"	"	5/3	00:20	
788-88	α Hyi A	0h 32.0	+31° 59	"	"	"	4/3	01:11	
789-88	21 Leo	10h 31.2	+21° 27	Hx2	"	"	5/3	01:40	
790-88	κ Leo	10h 26.7	+12° 11'	"	"	"	4/2	01:55	
791-88	μ Leo	10h 05.2	+16° 56'	"	"	"	5/2	02:18	
792-88	30 Leo	10h 26.3	-01° 26'	"	"	"	5/5	02:37	
793-88	ρ Leo	10h 30.2	+09° 31'	"	"	"	5/2	02:54	
794-88	Θ Leo	11h 08.7	+15° 39'	"	"	"	5/8	03:10	
795-88	ε UMa	11h 13.0	+20 49'	"	"	"	4/5	03:37	
796-88	ρ Leo	11h 46.9	+11° 49'	"	"	"	4/4	03:50	
797-88	γ UMa	11h 51.3	+53° 54'	"	"	"	4/4	04:08	
24577	HD 103095	11h 47.3	+38° 25'	Hx2	Imacon	.20	5/6	04:20	04:35

Dome Temp.....
Focus 15.12
Dome Temp.....

Jan. 21 — MC +.6 | SC -.45 | S .39 | MTW +.26 | STW -.5 | SW -.48 | ME +1

Transparency Conditions poor early in evening clear later on irregular sky cover. - 4 haze over Toronto from 4:15

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			6	3.00	B2 III:p	30"	4250-4540 Lwl-1F, 2 / mm, AA 30c	
			"	4.40	B3 V	"	" " " "	
		+15°07'	"	4.42	B5 V	"	" " " "	
		-1°11'	"	4.35	B3 V	"	" " " "	
		+31°37'	10	1.77	A1 V	"	" Sol A " "	
		+35°24'	"	3.63	A7 V	"	" Sol D " "	
		+13°38	10	1.21	G7 III	"	" [illegible] " "	
		+16°56	8	3.5	A0 Ia	"	" " " "	
		-00°28'	5	3.0	B6 V	"	" " " "	
		+07°18'	8	3.71	B1 Ib	"	" " " "	
		+15°51'	9	3.19	A2 V	"	" " " "	
		+28°43'	10	2.39	A4 V	"	" S = +29°11'E? " "	
		+14°47'	10	3.51	A5 V	"	" " " "	Sol's path
		+13°51'	10	3.47	A0 V	"	" clouded out	
35 W		+38°00'	0	3.04	G8 III	4-4-4	Sol 2 S HV clouds 5:15 Sun 2 W	
							IPH - BOX	

349

Date Jan 22-23/59 Observer - H Julian Day 2436591.

0 302 06 35.8 3660.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. -8.2	Starting Time E.S.T.	Ending Time E.S.T.
24323	HD 81192	09 19.1	+20 13	I·25	E 103a-O	.008	-8.6	0145	0415
24524	104556	11 57.4	43 34	"	"	"	-8.5	0425	0625
	9.5 — 9.5t		0; 9.B,						

Dome Temp. +8°F

Focus 15.12

Dome Temp.

Transparency Conditions 350

Earlier periods cloudiness and extreme humid.
Ex. Mtr. is sick.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21.5	2.4m W	+19 5 2	000	7.5	G8 III	4-4-4	Set 2 Se-GN 6722 ##	
21.5	2 16 W	43 18	00	7.5	G8 V	4-4-4	" 8 Se-HV	
						15/10	" 5	
							1 R.H + ?	

	MC	SC	S	MTW	STW	SW	ME
Jan 23	+.5	-44.6	-33	+26	-.5	-49	0.0

351

Date Sa-123/24 1954 Fr/Sat Observer Smith - Dy Julian Day 2436592

⊙ 303 07 36.2 36595

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24525	HD217312	$22^h 54.8$	+6232	2		016	-11°C	18 02	19h 10m	SW
24526	47° 809	3 14.9	+47 36	2S	II	008	-1	20 36	"	

Dome Temp. +8

Focus 15.09

Dome Temp. +1

Transparency Conditions Fine

352

21:50 tui- Alto-Cum-S
22:05 9/10 cloud
22:10 10/10 cloud

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1h	4h05W	+62°50'	0	7.5	BOTE	2+2+2	OB Prog. aggregate 17. PH2 S.D.	
1h		43°48'	0-1	8.3	AO	4+4+4	α Per. Prog. PH2 pos 2. super prog. Clouds around 00 10	
							3 P.H +3	
							Dome got stuck a number of times. Clamp stuck plate spotter roll. Etc and close to cold	

353

Date Jan 21/22/59 Observer DH - HS Julian Day JD 2436595

⊙ 305 09 34.4 36580

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. -9.9	Starting Time E.S.T.	Ending Time E.S.T.
24527	V² Cam	08 27.1	+24 25	I-25	E1030	.008	-10.4	0037	0245
24528	HD 104556	11 57.4	43 34	"	"	"	-10.4	0339	0439
	Focus Test		OTB						

Dome Temp. +1° F

Focus 15.10

Dome Temp. -4° F

Transparency Conditions Good while it lasted. 354

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12 45	2 16W	24 14	000	7.38	G9 III	4-4-4	SE - GHV Set 2	Good
1 39	041W	43 15	00	7.50	G8 V	4-4-4	Se - Hv " 8 0420 Cloud from S.	Good
						15/10	" 5	
							1 PH + 3.	

355

Tues.

Date Jan 27-28/37 Observer (HD) L - H Julian Day 2436595

⊙ 306 10 32.4 3657.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24529	HD 217312	22 54.8	62 32	I-25	En3.0	016	-6.6	18 02	18 44	
24530	BD 47° 830	03 20.5	47 57	"	"	"	-6.6	19 02	19 42	E
24531	BD. 47° 832	03 20.9	47 25	"	"	"	-6.6	19 46	20 10	E
24532	BD 48° 936	03 21.0	49 37	"	"	"	-6.6	20 13	[illegible] 40	3
24533	BD 48 933	03 22.7	48 53	"	"	"	-6.7	20 [illegible]	21 21	3
24534	BD 48 949	03 27.3	48 19	"	"	"	-6.5	21 [illegible]	21 41	4
24535	BD 49 876	03 06.6	49 15	"	"	"	-6.8	21 46	22 [illegible]	2
24536	BD 48 906	03 17.3	48 48	"	"	"	-6.8	[illegible] 37	23 [illegible]9	
24537	BD 47 846	03 24.6	47 33	"	"	"	-6.9	23 41	00 11	
24538	HD 21192	03 [illegible]	120 13	"	"	.003	-7.0	0[illegible]3	[illegible] 31	
24539	" 24937	19 43.5	17 19	"	"		-7.0	01 17	[illegible]	

Dome Temp. 20°F

Focus 15.13

Dome Temp.

Transparency Conditions

35c

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 44	3 55 W	62 50	0-1	7.8	B9V	2-2-2	set 2. 013 Prog.	
19 42	2 25 W	48 07	0-1	7.9	Ao	2-2-2	Set 2 2° Per. Cluster	
20	2 53 W	47 35	0-1	7.1	Ao	2-2-2	" 8 " " "	
21	1 32 W	49 47	0-1	8.0	Ao	2-2-2	" 2 " " "	
22	2 02 W	49 03	0-1	7.4	Ao	2-2-2	" 8 " " "	
42	2 25 W	48 26	0-1	7.0	Ao	2-2-2	" 2 " " "	
43	2 23 W	49 23	0	7.2	B9	2-2-2	" 8 " " "	
14	1 06 W	48 58	0	7.7	Ao	2-2-2	" 2 " " "	
00 IL	0 52 W	47 41	0	6.6	B9	2-2-2	" 8 " " "	
00	0 22 E	19 57	1	7.50	G_0 III	4-4-4	" 2 Se-GHV 7562 7582 #7	
00	0 35 W	17 56	0	8.65	F_2 VI	4-4-4	" 8 " HV 7589 7621 #8	
						15/10	" 5	
							3 P.H.	
		Jan 28 -	MC -.5	SC -.45	S -.22	MTW -.39		
			STW -.5	SW -.50	MC +.2			
							Ex. Mtr.	

257

1959

Date Jan 28/29 Wo/Th. **Observer** Ltd Sv B **Julian Day** JD 2436597.

Q 307 11 29.6 3656.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24540	HD217312	$22^h 54.8^m$	+62°32'	25"	103a0	016	-5°C	$18^h 03^m$	$18^h 33^m$
24541	B.D. +47°B40	3 [illegible]	+47°39			"	-4.5°	$19^h 05$	$19^h 35^m$
24542	B.D. +46°943	3 24.8	+46°25	"	"	"	"	$19^h 44$	$19^h 50^m$
24543	B.D. 47° 792	3 08.8	+47°42		"	"	"	$20^h 01$	[illegible]
[illegible]	B.D. +49° 900	3 11.7	+49°2[illegible]					$20^h 52$	[illegible]
[illegible]	B.D. +[illegible]° 906	3 [illegible]	[illegible]				-6.0	[illegible]	[illegible]
[illegible]	B.D. +[illegible]° 7[illegible]	3 [illegible]	[illegible]	"	"			[illegible]	[illegible]

ome Temp. +25° F
ocus 15.16
ome Temp.

Transparency Conditions O.K.
19.10 pm+ cloudy

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18" 37"	3 48 W	62° 48'	0-1	7-5	B0 V	2+2+2	OBA gr #17 — Spectra B	
19" 35"	0 18" W	47 47	1	7-9	A0	2+2+2	#2	
20" 30"	0 34" W	48 36'	1	6-5	B9	2+2-2	#8 " "	
		47° 57'	1-2	8.1	A0		PH 1 #2 " " "	
		49° 35'	2	7 E	A0		#5 " " "	
		4° 27'	1-2	7 C	A0		PH 1 #2 " " "	
		51° 27'	1	7-7	A0	2+2+	#5 Exp Terminated by clouds	

	MC	SC	S	MTW	STW	SW	ME
Saw. 30	+.5	-.52	-.34	+.35	-.8	-.50	0.0

Light on plate Spectra dim.
Exp 11. out of order.

359

(Hd)

Date Jan 31 / Feb 1 Observer Ru Julian Day JD 2436600

⊙ 310 14 17.2 36545

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24547	HD 217312	22 54·8	+62 32	25	T-MO	·016	-5·0	18 16	18 48	
24548	BD +48° 862	03 05·9	+48 42	"	"	"	"	19 43	2021	

Dome Temp. +11°F

Transparency Conditions Clouds near horizon 300

Focus .....

Dome Temp. +

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1848	4h 15 W	+62 48	0	7.8	Bo IV	2-2-2	sc+L 0 B [illegible]	Too weak
2021	4 35 W	+48 52	0	7.9	A_1	2-2-2	s^{t_3} α Per K7 Closed [illegible] + 1900 Closed 1940 Cloudy again 2015 Closed 2150 2 PH +0	Too weak

361

Date Sun. Feb. 1-2 1959 Observer L - H S Julian Day JD 2436601.
@ 3 11 15 11.7 3653.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24549	HD. 217312	22 54.8	+62 32	I-25	E103a-O	Set .016	-10.2	18 15	18 45	
24550	BD+48°903	03 16.6	+48 16	"	"	"	-10.2	19 06	19 42	
24551	" +47°821	03 19.1	+48 03	"	"	"	-10.2	19 48	20 28	
24552	" +47°828	03 20.0	+47 52	"	"	"	-10.2	20 33	21 07	
24553	" +47°830	03 20.5	+47 57	"	"	"	-10.3	21 15	22 13	
24554	" +46°906	03 19.3	+48 48	"	"	"	-10.4	22 24	23 20	
24555	" +49° 876	03 06.5	+49 15	"	"	"	-10.4	23 27	00 17	
24556	HD 77108	08 57.2	+33 16	"	"	.008	-10.5	00 28	02 30	
24557	" 104056	" 57.4	+13 44	"	"	"	-11.5	02 45	04 15	

Dome Temp. 0°F

Focus 15.09

Dome Temp. −6°

Transparency Conditions Good

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	4 17W	62 47	0	7.5	B o IV	2-2-2	Sel 5 · OB. 1 Nog.	l weak
19 42	5 49W	48 26	0	6.8	B9	22-2	Sel 2 & Pas. Cluster	fair
[illegible]	1 28W	48 12	0	7.4	A0	22-2	" 8 " " "	fair
[illegible]	2 13W	43 02	0	6.8	B9	2-2-2	" 2 " " "	fair
[illegible]	3 EEW	43 06	0	7.9	A0	2-2-2	" 8 " " "	fair
[illegible]	4 27W	43 58	0	7.7	A0	2-2-2	" 2 " " " wrongly numbered 245 #4-45	fair
[illegible]	5 39W	49 23	0	7.2	B9	22-2	" 3 " " "	fair
[illegible]	1 [illegible]W	38 00	00	7.53	F7 I	4-4-4	" 2 Se-HV. #8 - 7665 ??	elongated
[illegible]	2 11SW	43 16	0	7.5	G8 I	4-4-4	" 2 " "	slightly elongated
						15/10	" 5	fair-OK
							1 P.H.	
							Not [illegible] will [illegible]	
							[illegible]	
					Tel. 2		MC +.5 SC −46.3 3 STOPPED MTW +44 STW −.8 SW −52 MW +4	

363

Date Mon Feb 2-3/59 Observer (15h/16h) MR-Li Julian Day JD 2436602.
Q 312 16 05.4 36 53.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24558	HD 217312	22 54.8	+62 32	I-25	E1030	016	-1/6	18 06	18 42
798-89	20 Jan	03 43.5	+24 14	AB×2		20	5/4	19 03	
799-89	HR 1172	3 46.0	+23 18				5/6	19 28	
800-89	HR 1183	3 47.4	+23 35				5/7	19 43	
801-89	34 Ta HD 21448	3 26.5	+49 22				5/4	20 04	
802-89	HD 21278	3 25.2	+48 55				5/5	20 19	
803-89	" 20809	3 21.4	+49 03				"	20 36	
804-89	" 213062	3 26.0	+49 42				5/6	21 06	
805-89	" 21071	3 23.2	+48 57				5/6	21 28	
806-89	ε Per A	3 58.2	+39 54				4/5	21 44	
807-89	α Col A	6 43.4	-16 40				3/3	22 03	
808-89	α Gem	7 32.0	+31 59				4/3	22 59	
809-89	α Cri	6 05.2	+44 47					23 25	
810-89	β Aur	7 13.9	+28 07			1/10	4/4		
811-89	δ Tau	4 [illegible]	+17 04			10	4/4	00 52	

Dome Temp. +10

Focus 15.07

Dome Temp.

Transparency Conditions

354

Ending Time E.S.T.	Hr Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
13-2	+ 1.7 W	62 50	1	7.8?	B2 IV	2-2-2	Set 2 OB Ring Agg #17	
			4	3.?0	B7 III		Set D 4210-4540 2"/min 1A/sec	
			4	5.?4	B8 V		"	
			"	6.16	B9 V		" seems to be light	
				2.6?	O8 III		Set F	
				4.94	O9 V		"	
				5.30	B5 V		"	
				5.64	B6 V		" check HD Number for this star	
				5.91	B6 V		" tel. wobble = 2 NS, 1 EW ~ 2 & 3"	
				2.71	B0.5 V		Set A	
				-1.W	A1 V		"	
				1.97	A1 V		" Bad seeing A0, B 1"	
					A1 V		E & C Wind, equinox	
					B1 V			
			4"		A2 III		"	

365 continued from previous page

Date ..... Observer — Li ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
~~2458~~	~~HD 7748~~	~~10h 31.m~~	~~+40° 5'~~	~~"~~	~~"~~	~~"~~	~~11.9°C~~	~~02:28~~	02:55
812-89	β Tuc	11h 12.m1	+15° 37'	5000	3520	10	5/4	03:05	
	61 Vir	11h 37.m0	+34° 26'						
813-89	β Vir	11h 48.m6	+02° 00'	5000	3950	"	5/5	03:50	
814-89	ε Crv	12h 31.m8	+41° 34'			"	6/1	04:17	
815-89	31 Com	12h 49.m8	+27° 45'				6/2	04:46	
	80 Ursae Maj	13h 22.m4	+55° 12'						
~~2457~~	~~HD 10700~~	~~1h~~	~~-16°~~	~~1.25~~	~~"~~	~~"~~	~~11.8°C~~	~~04:33~~	~~04:52~~
~~2459~~	~~HD 14374~~	~~13h~~	~~+19° 63'~~	~~"~~	~~"~~	~~"~~	~~"~~	~~04:58~~	

	MC	SC	MTW	STW
Jul. 4	7.5	-47.3	+8	-.6
2	SW	MC		
Sept. 11	-55	+25		

ne Temp.....

lus.....15.22.....

ne Temp.....+10°.....

Transparency Conditions clear, cirri

N 5:42 dawn, wind

Ending Time E.S.T.	r Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	*
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	*
			8	3.4	A2 I		W 16 · 4 Flow, 2" Lens 5200-5600	
				5.5	G8 I		" " star " " "	
				3.8	F8 I		"	
			[illegible]	1.[illegible]	60 I		"	
			[illegible]	5.1	G2 III		"	
				1.[illegible]	A5 I		"	
[illegible]	[illegible]	[illegible]	[illegible]	6.2	A5	[illegible]	[illegible]	*
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	*
					1 p.H. +			

* In closing the slit to 008 the observer had turned the drum a full revolution counter-clockwise so that the slit was completely closed — Nothing on the plates. — H.S.

Date Feb 5/6 Observer Ru Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24559	BD +48°862	03h 05.9	+48 42	25	I03aO	.016	-2.9	20 25	21 55
24560 x	BD +47°835	03h 22.1	+47 59	25	"	"	-3.1	22 04	22 14

me Temp. +20 °F

Transparency Conditions Clouds until 20.00 360

cus 15.19

me Temp.

Ending Time E.S.T.	ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2155	3h 30W	48 50	0	7.9	A1	2-22	ν Per 167 set 5 STRONG WEST WIND MAKES guiding difficult in dec.	(dust + wet) fair
2214	3h 35W	48 10	0+	7.2	B9	2-	" 831 " Clouded out.	nothing
							2PH + box + 4	
						Tech. 6	MC +.6 SC -48.1 MTW -1 STW -.6 S STD. SW -55 ME +25	

369

Date February 6/7, 1959 Observer ~~M-Sc-DJ~~ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	I
24561	BD+47° 835	03h 22.1	+48° 11' (1960) 47 59'	25	E103a0	.016	-8.6C.	18 24	19:26	3
24562	BD+47° 837	03 17.7	+47 35	"	"	"	-9.0	19:40	20 55	4
24563	BD+48° 933	03 22.7	+48 53	"	"	"	-9.2	21 13	22 35	
24564	HD 26583	04 54.3	+29 31	"	"	.008	-9.2	22 41	00:00	-
24565	HD 73402	08 51.0	+33 16	"	"	"	-9.1	00:10	1:20	-
24566	HD 89688	10 15.9	+44 26				-9.3	01:36	4:10	-

Dome Temp. +9°F

Focus 15.11

Dome Temp. +3°F

Transparency Conditions Clear

Spotter box not working to rotate.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	49 W	+45°06	0	7.2	B9	2-2-2	set 5 of Pleiades cluster exposures 7 1/2 min.	fair
	24 W	+47 48	0	7.8	A0	2-2-2	set 5 exposure meter dead not fired when plate set button	fair
	33 W	+49 03	0	7.4	A0	2-2-	set 5	
	51 W	+29° 19	0	7.7	G8V	4-4-4	set 2 Sc-HV	
	01 W	+33° 02	0	7.5	F7V	4-4-4	set 8 Sc HV	
		+44° 05	0	8.2	F5	4-	set 5 Kapteyn 8° <3°	
						5/0	208 from T closed at T	
							closed dome at 02.20 E.S.T	
							1 P.H + 40x	

α P.S

spot sent to west of comparison

fair

fair

fair

fair

471

SUN - IREN

Date Feb 7/8 1951 **Observer** D.M **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24567	B.D +49° 900	03 11.7	+49 26	I 25	E 103AO	0.016	-8	2003	2127	
24568	B.D 51° 728	03 16.5	+51 25	I 25	E 103 AO	0.016		2153	2230	

ome Temp. +3

Focus 15.12

ome Temp.

Transparency Conditions

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:27	—	+49 30	0	7.8	Ao	2-22	No. Count 7870 X Exp. tr not used a Per	weak
2:33	+07W	+51 37	0	7.7	Ao	2-4	Plate unspotted Clouds at 2222	Too weak
							Two Plate-holders loaded. 2 unspotted plates One Plate-holder missing 2PH + 4	
							Plates from Fri.-Sat. & Sat.-Sun. in two boxes	

Feb 9	MC	SC	MTW	STW	S				
	+.6	-49.2	/	/	+1M53.9S				
	SW	ME							
	/	+30							
	MC	SC	MTW	STW	S	SW	ME		
Feb 11	+.6	-498	-1.2	+.5	-2M6S	+2M.6S	+17		
	MC	SC			S	SW	ME		
Feb 13	+.5	+9.4			-2	+4.1	+3		

373

Fr/Sat

Date Feb 13/14 1959 **Observer** WdB **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24569	BD+48°909	3h 18.2	+48°58'	21"	103aO	.016	+2°C	20h05m	20h50m	
24570	BD+47°817	3h 17.7	+47°35'	21"	103aO	.016	+2°C	21h02m	21h30m	
24571	BD+47°835	3h 22.1	+47°54'	"	"	"	+2°C	21h41m	21h55m	
24572	BD+51°728	3h 18.6	+51°25'	"	"	"	+2°C	22h10m	21h40m	

Dome Temp.... 33° F

Focus..... 1.5-2.5

Dome Temp.....

Transparency Conditions..... clear

11:30 Cirrostratus cloud.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	2h 44m W	+49° 09'	0	8.4	A4	2+2+2	poss α Persei program	[illegible]
[illegible]	3h 24m W	47° 46'	0	7.6	A0	2+2+2	" "	[illegible]
[illegible]	3h 45m W	49° 08'	0	7.2	B9	2+2+2	" "	[illegible]
[illegible]	4h 35m W	51° 36'	0	7.7	A0	2+2+2	" " Exp Termin by clouds	[illegible]

4 P.H.s loaded with spotted plates + 4 in carton

Feb 16	MC.	SC	MTW	STW	S	SW	ME.
	+.5	-33.3	-10	-.5	\	-43	+1

Plate [illegible] spotted [illegible], plates not [illegible]

Dome opened by hand.

[illegible]

275

Date Feb 19/20 Observer DH Ru - H ✓ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F
24573	BD+49°900	03 11.7	+49 26	25	I03aO	0.016	-11.3	18 46	19 46	1
~~24574~~	~~BD+48°862~~	~~03 05.9~~	~~+48 42~~	~~25~~	~~I03aO~~	~~0.016~~	~~-11.5~~	~~20 01~~	~~20 09~~	~~2~~
24574	HD 60298	07 28.7	+25 09	"	"	0.008	-11.6	21 03	23 41	3
24575	HD 77408	08 57.2	+33 16	"	"	"	-12.0	23 49	02 29	
	Dome	Test	0	76						

Dome Temp.... + 04 ° F

Focus..... 15.09

Dome Temp.....

Transparency Conditions .....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
19 46	2 09W	+ 49 36	0	7.8	A_0	3-3-3	Set 5	α Per 386	N wind makes guiding impossible decided to change Sa Dec. Lamp stuck Accidental light 1/2 hour to clear it
~~20 [illegible]~~	~~[illegible]~~	~~[illegible]~~	~~0~~	~~7.9~~	~~A_1~~	~~2~~	~~set 5~~	~~α Per 167~~	~~[illegible]~~
23 41	49W	+25 02	0	8.01	$G_2\underline{V}$	4-4-4	set 5	Se HV	
02 29	3 09W	33 = 1	0	7.5	$F_7\underline{V}$	4-4-4	set 5	Se HV 0020 Clouds 0100 clear	
						15/10	11 20	Cl[illegible] 0400 [illegible]	

1 PH. +12

277

Fr/Sat

Date Feb 20/21 1959 **Observer** vdB **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
~~24574~~	~~BD 49° 953~~	~~5h 2m 40s~~	~~-49° 22'~~	~~25"~~	~~103a-E~~	~~GG6~~	~~-11°C~~	~~19 17~~	~~20 10~~	~~1~~
24576	"	"	"	"	"	"	"	20 13	21h 07	

ome Temp. 10°

ocus 15 09

ome Temp.

Transparency Conditions clear

20.50 Altocumulus 7/10

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
~~10 10~~	~~2h 28m W~~	~~41° 03'~~	~~0-2~~	~~8.5~~	~~10~~	~~2+2+~~	~~Sets. Expected large Terrace mid. seeing~~ *	~~4 over~~ fast.
11 03	3h 18m W	"	"	"	"	2+2+	Exp terminated by clouds	

This plate will be numbered 20577 on the emulsion

* on unloading plateholder plate was found to be broken Exp. lost.

270

Date Sat Feb 21-22/59 Observer Hd-L Dq Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24577	∠ Per. # 970 BD 48°944	03 24.9	-48 16	I-25	E103a-O	016	-7.0	18 54	20 04	3
24578	BD. from #65 48° 909	03 18.2	48 58	I-25	"	"	-7.0	20 11	21 55	4
24579	H.D. 79190	09 07.5	56 02	"	"	.008	-7.0	22 03	23 33	1
24580	" 82569	09 27.7	61 20	"	"	"	-7.0	23 37	01 25	2
24581	HD 106516	12 10.0	-09° 43'	"	"	"	-6.9	01 37	02 45	5
24582	HD 104556	11 57.4	+43° 14'	"	"	"	-7.0	02 55	03 31	6

Feb 23-

MC	SC	MTW	STW	S	SW	ME
+1.6	+1.1	-30	-9	-7	-8	+3

I 12 focus moved to 12.10, Tilt 20.25.

350

Dome Temp. + 10°F

Focus 15.13

Dome Temp. + 07°F

Transparency Conditions T

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04	W 2 23	48 25	0	8.1	?	2-2-2	α Per Cl.	
55	4 20 W	49 05	0	8.4	A4	2-2-2	" "	
33	0 09 W	55 46	0	7.46	A0	4-4-4	Kapetyne 8X8	fair
	4 1 W	61 03	0	7.43	F0	4-4-4	" "	Focus bad
	17 E	-10° 04'	0	6.57	F6 II	4-4-4	Se HV	
	2 W	-42° 15'	0	7.50	G4 II	4-4-4	set 5 " " ended by clouds	
						15/10	#8 focus Test	
							47 H. + 0	

Sun. Feb 22 Changed to I-12

I 25 focus was 15.13 — Tilt " 23.15 —

I 12 set focus 12.10, Tilt 20.25 —

hot focus was OK Feb 19-20.

Note In changing cameras I am pretty sure that I focused the focus at 15.63 instead of 15.13. If so, it was not the previous run, but at 15.59 instead of 15.09. Focus test will tell. HC

Date Tues Feb. 24-25/59 Observer L-H r Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24583	B.D. 49° 877	03 07.2	50 03	I-12½	E-103Ao	set .016	-5.5	19 12	20 52	C
24584	BD 29° 1908	09 25.2	29 44	"	"	"	-5.5	21 03	01 03	3
24585	BD +30° 2175	11 29.8	29 59	"	"	"	-5.8	01 11	04 21	4
24586	HD 125709	14 16.1	27 01	"	"	.008	-5.7	04 46	05 36	5
	Found Dist.		07 B							

ome Temp. +10°F
ocus 12.90
ome Temp.

Transparency Conditions

Some haze over higher down.
Clouds in S.W.

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 5E	3 40W	50 13	O	9.0	F_5	1-1-1	α Pers. Cluster	
	135 W	29 26	O	9.93	G_0	1-1-1	KAFS Prog.	fair
	250 W	29 37	O	9.78	G_5	1-1-1	" "	fair
	112 W	26 45	O	7.46	A_2	2-2-2	KA 2x2 Set 5	rotary
						8/6	" 9	
							3 P.H. + 4	

283

Date Wed Feb 25-26 /59 Observer Se — Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	ur Angle End
24587	HD 82861	9 29·6	+57 25	I-12	E103aE	set .008	-4·0C	21 : 43	22 : 10		SE
24588	HD 82969	9 30·2	+60 39	"	"	"	-4·0	22 : 23	23 : 05		SE
24589	HD 91648	10 31·9	+60 38	"	"	"	-4·0	23 : 18	24 : 46	2	SE

ome Temp. +24F

ocus

ome Temp.

Transparency Conditions Hazy
perhaps ½-1 mag extinction.

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:1	20 E	+5° 07	2	6·88	A2	2-2-2	KA 8×8	2nd rating
23:5	25 E	+60 22	2	7·34	G5	2-2-2	KA 8×8 (Plate labelled 24488)	2nd rating
24:2	30 E	+60 17	2	7·37	F8	2-2-	KA 8×8 0015 Cloud. Foggy 0145 Poor.	2nd rating
							4 P.H. +4?	
							MC SC MTW STW S SW ME	
							Zch. 27 - +1.6 -3.5 -2 -3 -23 -6 +2	

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Fr/Sat

Date Feb 27/28 1959 Observer v.d.B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	

Time Temp.....

Focus.....

Time Temp.....

Transparency Conditions Hazy, partly cloudy
clear up at 19.20

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality

387

Date Sun Mar. 1-2/59 Observer L. Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24590	BD 45° 1761	09 40.2	44 50	I 12½	E103Ao	Set .016	+3.6	21 34	0136
24591	HD 112297	12 50.6	44 50	"	"	"	+3.1	01 52	0456
24592	" 126246	14 19.3	+11 42	"	"	008	+3.3	05 1,	0542
	Focus Test		09B						

Dome Temp. + 32°F

Focus 12.90

Dome Temp.

Transparency Conditions

Start delayed by clouds and haze

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0136	2 21 2W	44 33	0	9.88	F7	1-1-2	K.A.F.S.	good
0256	2 22 4W	44 32	0	7.48	F8	1-1-1	" #9 73 Counts	strong
0513	2 1 42W	11 25	0-1	7.7	F5	2-4	Sets K A 8 8 n.preceding #8 7974 4 counts 0520 Cloud	faint
						8/6	" 9	
							I.P.H. +4	
						Mean 2	MC +.6 SC -6.5 MTW -19 STW -5 S Stopped SW -13' ME +3	

389

Date Mar-Jun 1919 Mar 2/3 Observer MC Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
2493	BD +45° 915	3h 24m.2	45° 34'	12½	103a0	net .016	+3.8°C	20:21	22:13	
	completely	crossed	at	midnight	- hopeless	at	10			

ure Temp.
ons.
ure Temp.
ur Angle
End

Dome Temp.

Focus

Dome Temp. 33°F

Transparency Conditions

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	5:07 W	+49° 46′	0	8.6	A4	1-1-1	at 5 X Per #9	
				4 pH + 0				
							[illegible] / SC / MTW / STW / S / SW / ME	
							Mar 4. +.6 / -8 / -35 / -.5 / -7 / -13 / +6	

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Date Wed - Thu 1959 March 4/5 Observer Se — Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24594	HD 82969	9:30.2	+60 31	I-12	E 103.0	Set .008	+4.0C	21h 25	21h 57	
24595	HD 91948	10 31.9	+60 38	"	"	"	+4.0	22h 16	22 48	
24596	HD 80686 9m	10 15.9	+44 26	"	"	"	4.2°	23 16	0332	
	Three Post		073							

Dome Temp. +28° F

Focus

Dome Temp. +

Transparency Conditions

Clearing at 21:00

Cumulus to Haze + Cirrus after midnight

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0h E	+60° 22	0	+3.4	G5	2-2-2	set 5 K8×8 E.M. 8166 set 7	
	16m E	+60° 18	0	7.37	F8	2-2-2	set 5 K8×8 EM 8177 set 7	
	5 34m W	+44 06	0	8.2	F5	2.2.2	set 5 K8×8 EM 8190 set 8	
						8/6	" 9 8203	
							1 P.H. Failed Plate unmarked	
						7 Nov. 6	MC +.6 SC -9 MTW -54 STW -.5 S -13.3 SW -12 ME +2	

Date Sat Mar 7-8/59 Observer Hd - BK Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.A.
	2 Per Cluster 522									
24597	BD 51 723	03 15.3	51 18	I-12	E 103a-O	016	-3.8	19 08	21 28	1
24598	HD 83697	9 35.2	44 39	"	"	"	-4.0	21 39	22 49	2
24599	BD+44 1898	9 36.6	44 18	"	"	"	-3.8	22 54	01 54	3
24600	HD 11407	13 02.0	29 59	"	"	"	-4.0	02 15	05 15	4
	Focus Test	O + P				.008				

Dome Temp. 20F

Focus 12.90

Dome Temp. 12°

Transparency Conditions

spotty overcast

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	W 4 52	51 30	0	9.0	A3	1-1-1	d Per Cl.	
	E 7m	44 23	1	9.72	G8	2-1	KAFS	
	W 1 58	44 00	1	9.85	F9	1-1-1	"	
	W 1 52	29 40	0	10.08	F8	1-1-1	" Cloud from Sat 4, 8308-8344 clouded out	
						5/6		
							1 PH + 8?	

pairs 9 at 19 16 counter 8207
Counter jerked. Est. 30 counts
pairs 9 counts 8226-8256
8257-8302

Date Mon Tues 1913 Mar 9/10 Observer MR - Li Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
24601	BD +45° 991	03h 33m.7	+45° 11′	I-12½	103a-O	Rat .016	-0.6	19:25	22:25	1	
24602	HD 84219	09 38.5	+44 53	"	"	"	-0.8	23:16		2	
24603	ED +45° 1859	10 38.3	+45 12	"	"	"	-0.8			1	
24604	HD 135943	15 [illegible]	+59° 49′	"	"	"	-0.8		04:17		
24605	HD 115741	15h 11m.6	+59° 58′	"	"	"	-0.8	04:52			
	Focus Test - OTB					Obj					

Dome Temp.... +16°F

Focus.....

Dome Temp.... +12°F

Transparency Conditions high cirrus in spots

An excellent evening to observe.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	5^h 37 W	+49° 22'	0	9.2	A0	1-1-1	Perc. Cl. sets after 23 coords	fair
	1^h 34 W	+44 35	0	8.52	G3	1-1-1	KAFS - SA 29 set 2 8397	fair
	[illegible]	+44° 52'	0-1	7.59	F4	1-1-1	KAFS - SA 30, set 2 F436 - F461 Nb	fair *
	0^h 2 W	+59° 32'	2-3	9.69	G9	1-2	KAFS - SA 15, set 2 F437 - 2507 Nb	poor (clouds)
	1^h [illegible] W	+58° 39'	2-3	7.45	F5	1-1-1	KAFS - SA 15, Set 2 8511 - 8542 Nb	fair
						6/6		
			4 pH - 0				* Comps are weak	

Date Mar 10/11. 1959 Tue-Wed Observer RK[illegible] – Hv Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
24606	BD+48°885	03 12.5	48° 35'	I-12	F103-aO	set .016	+0.2	19 17	22 05	1	
24607	BD+44 1904	9 41.0	+44 42	"	"	"	"	22 14	23 36	2	
24608	+09 2154	10 33.1	+45 52	"	"	"		23 40	00 10	3	
24609	BD+30°2024	10 24.1	30 01	"	"	"	0.0	00 22	02 44	4	
24610	HD 115795	13 02.4	29 14	"	"	"	-0.1	03 00	05 40	1	
	Flare Dot		07 B			"					

Dome Temp. 26°

Focus 12.90

Dome Temp.

Transparency Conditions

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12 05	W 5 42	48° 43	0	9.1	F4	1-1-1	set 5 α Pucl.	runs 9 10 min 5558 - 8583 (1.5 to start)
12 16	W 0 41	44 25	0	9.39	A5	1-1-1	" 3 KAFS.	runs 9 8585 - 8615
12 31	2 0 37 W	45 02	0-2	9.76	K5	1-1-1	" 5 "	MORE COUNTS +5 8630 - 8657
12 41	3 12 W	39 42	0	9.66	F6	1-1-1	" 5 "	+3 8661 - 8691
12 51	3 31 W	32 54	0	9.76	K5	1-1-1	" 2 "	8692 - 8716
						4/3	" 8	
							31 H. +8	

Patch	MC	SC	MTW	STW	S	SW	ME
13	+.5	-18.7	$-1^M 49$	$-1^M, 9^S$	-43	-20	0.0

399

Date March 13/14 Fr/Sat 1959 **Observer** vdB - Dq **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
24611	BD 47° 508	$3^h 14.3$	$+48° 09'$	12"	103a O	008	$-1°C$	$19^h 38^m$	$21^h 38^m$	4
24612	HD 82011	9 24 2	+30 28	12"	103a O	D16	$-1°C$	$22^h 24^m$	$24^h 00$	7

Dome Temp. 28°

Focus 12·90

Dome Temp. — 23° F

Transparency Conditions good

400

...nding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
...39m	5h30m	46°20'	0	9.1	A8	1+1H	pos 5 α Persei cluster	
...50	1h ... Tot	30° 13'	0	10.0q	B9	1+2	pos 5 8722 — * (1.10) VI AFS program (53)	
						4/3	set 9 clouds. → fog set	
							1 P.H. +8	
						Tim. 16	MC +.5 / SC -2.2.2 / MTW -2m25s / STW 2m.5 / S -.54 / SW -.18 / ME +3	
							+ set to guide star, still cloudy at 0738 (11h10m)	
							hour angle 11h10m!	

H01

Date 9 mar 9 mar 16-17/59 Observer L - Li Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24613	HD 87271	09 58.8	12 07	I-12½	E103AO	Set .008	-1.8	21 09	21 33	2
24614	BD-30° 1875	9 26.6	30 02	"	"	.016	-1.8	21 42	[illegible]	3
24615	BD+60° 1611	15h 71.9	+60° 16'	"	"	"	-1.8	01:11	[illegible]	4
24616	HD 154681	16h 58.3	+58° 31'	"	"	Set .008	-1.5	[illegible]	[illegible]	
24617	HD 148332	16h 25.7	+15° 17'	"	"	"	-1.5	01:27	01:41	
	FOCUS TEST		OT E			.008				

Set the clock (Hilburn) was stopped at 01:42 to reset the time. One of the wires broke and had fallen down. There was a 5 minute break to fix it & then to catch the telescope to the meridian circle.

Dome Temp. 24°F
Focus 12.90
Dome Temp. +20°F

Transparency Conditions

Start delayed; clouds, high wind.
Resident 3rd half

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 37	/ 10 E	11 48	0	7.04	A0	2-2-2	Keptyne 8X8	1. weak
	h 31°W	29 45	0	9.73	F0	1-1-1	KAFS Prog.	Fine
	21°W	+60° 03'	0-1	9.93	F8	1-1-1	Set 2 KAFS, [illegible]	Fine
	16°E	+58° 30'	1	6.76	A3	2-2-2	Set 2 KA [illegible]	Strong
	[illegible]W	+5° 12'	0	7.52	A3	2-2-2	Set 2 KA 9X2	Marked *
						3/6	Set 8	
			4	pH	+0			
						Mean 18 ch	MC +.5; SC -.24; MTW -2M45S; STW -2M.5S; S -1M,3; SW -18; ME +4.	

* Very bad frame — probably taken through glass.

403

Date Wed-Th March 18-19 Observer Sc - Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24618	HD 82963	9h 30.2	+60 39	I-12	I103-0	Set .004	-1.2C	20 : 50	21 : 10	
24619	HD 91948	10 31.4	+60 38	"	"	"	"	21 : 20	21 : 40	2
24620	BD +45° 1753	9 36.7	+45 30	"	"	Set .016	-1.4C	22 : 20	0122	1
24621	" " 2137	13 50.1	45 13	"	"	"	-1.3C	0135	0353	2
	Dec. Tel. on NB					"				

ome Temp. +26°F

ocus

ome Temp. 26

Transparency Conditions Good (20:45)
clouds easing

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21)	[illegible] E	+60 · 23	1	7.34	G5	2-2-2	Set 5	KA 8×8
1.4	26 E	+60 19	1	7 37	F8	2-2-2	Set 5	" Some Clouds
1 13	109.1	+45 12	1	9.87	B8	1-1-1	Set 5	KAFS [illegible]
3 5		44 51	2	9.57	F6	1-1-1	" 5	" 32 [illegible] ± 9
						1/3	" 9	
							4 P.H. ± 8	
							Hazy + Stds at 20	
							Clouds at 22	

405

Date Sun Mar 22-23/19 Observer Hd-Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24622	α Per # 554 BD 48 897	03 16.0	+49 03	I-12	E103a-O	016	-6.7	19 14	20 30	1
24623	BD +45 1761	09 40.2	44 50	"	"	"	-6.7	20 46	23 22	2
24624	BD +29 1907	09 24.6	+29 33	"	"	"	-6.5	23 32	02 26	3
24625	HD 13/321	14 48.0	+15 35	"	"	"	-6.4	02 35	0405	4
24626	" 126446 Rep	14 19.3	+11 42	"	"	016		04 17		
						008	-6.5	04 21	0527	1
	Flocculi 1 at OTB									

ome Temp. 18 F
ocus 12.9a
ome Temp. +14

Transparency Conditions Excellent

406

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 30	W 4 52	47 14	0	8.6	F_0	1-1-1	α Per Cluster	Seens 9 begin 8919 end 8951 fine
13 ½	-S 1 20	44 32	0	9.88	F_7	1-1-1	KAFS	" began 9959 end 9959 fine
22	044 W	29 17	1	9.89	F_5	1-1-1	KAFS 0012 Cloud 0113 clear	" began 9901 9008
27	052 W	45 19	1	9.62	F_3	1-1-1	"	9008 9038 9042 fine
							KA E18 sets	fine
0 3 7	025 W	11 25	0	7.9	F_5	1-2-2	" " 2	18 9044 Δ
						S/6	" 9	
							3 P.H. + 4	

SPECTROPHOTOMETER

Date .... **Observer** .... **Julian Day** ....

Plate No.	Object	R.A. ~~1900~~ 1960	Declination ~~1900~~	~~Inst.~~ ~~Emulsion~~ spec. region	Analys. Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
601 - 70	star	from obs. program		4 γ x2.	20 n 10	5/3 ↑C ↑F	clock	—

↑ running number; ↑ right number (contact for right)

"Hour angle" at beginning from [illegible]
"Dec" " " from drum
"seeing" estimate size of star image compared to aperture size = 30"
"mag" "spec" from obs. prog.
"comp" put 30" for aperture size
"Remarks" beg & ending range of λ (counter) and last letter
also 1A/sec, 2"/min

in chart put "Plate No."
e.g. 601-70 at beginning of each tracing. Star name if you like

5-1, 5-2, 5-3, 5-4, 5-5, 5-6, 5-7

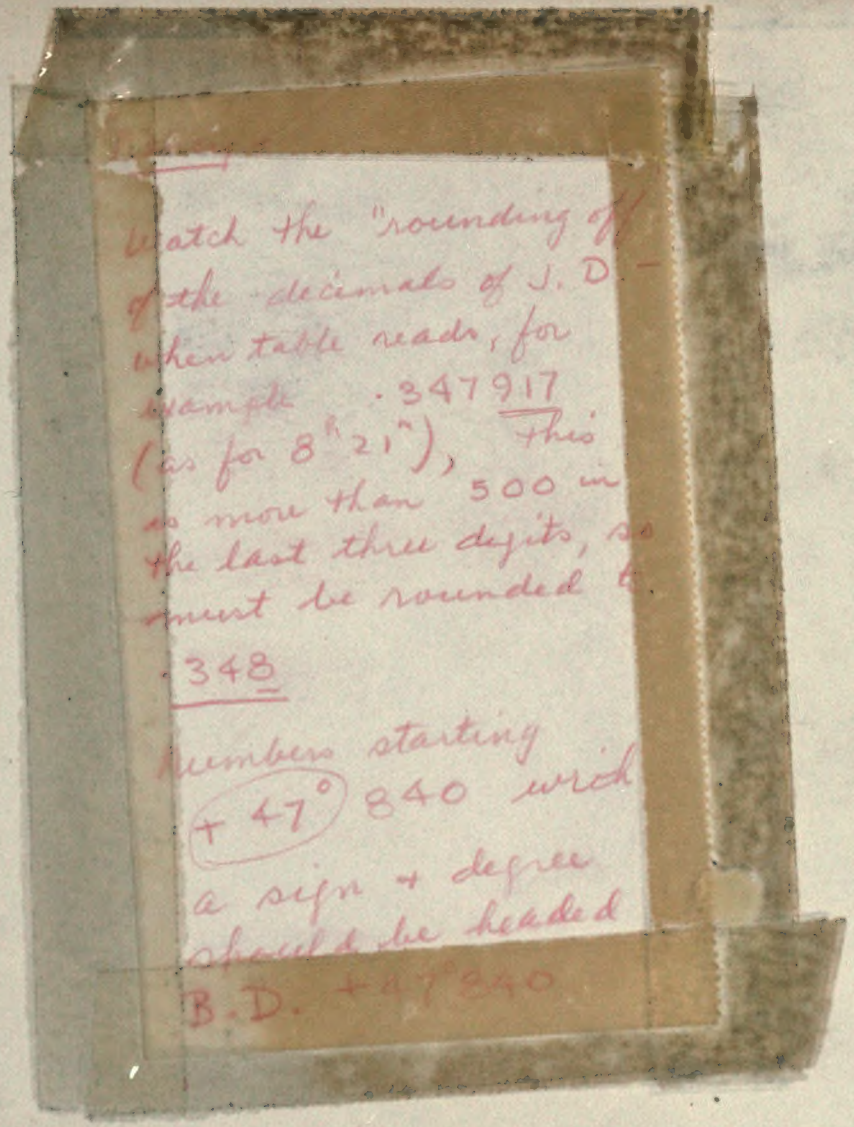
4-1, 4-2, 4-3, 4-4, 4-5, 4-6 = 5-1, 4-7

Ending Time
E.S.T.

409 1958;

Sh = David Shea
Gg = William Greig
My = Peter McConkey
Mai = Helge Mairs
Lin = Loren Linstrom

Dg - Demarque
L - Longworth
Hr - Harriken
Ru - Russell
Hd - Heard
vB - van der Burgh
Se - Searle
MR - Mackaet
DH - David Hogg



Watch the "rounding off" of the decimals of J.D. — when table reads, for example .347917 (as for 8h 21m), this is more than 500 in the last three digits, so must be rounded to .348

Numbers starting (+47°) 840 with a sign + degree should be headed B.D. +47°840

Se GHV
Se HV } Dr. Searle.

L Per — W. Russell

DB — Dr. Hand.

Wellesley "

NO. Bin } Miss Northcott.
or N Bin

Ka 8x8 etc. } "

Kafo } enter on cards as they first file on for drawer.